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UMM Catalog

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Spring 2007

Morris Catalog 2007-09

University of Minnesota Morris

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This is the Policies, General Information, Student Services and Opportunities, College Regulations, Academic Information, and Degree Requirements sections of the 2007-2009 University of Minnesota Morris Catalog.

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2007-08 Academic Calendar

Fall Semester 2007

New student orientation.....	Sunday-Tuesday, August 26–28, 2007
Fall semester classes begin.....	Wednesday, August 29, 2007
Labor Day holiday.....	Monday, September 3, 2007
Fall break.....	Monday–Tuesday, October 22–23, 2007
Thanksgiving holiday.....	Thursday–Friday, November 22–23, 2007
Last day of instruction.....	Friday, December 14, 2007
Study day.....	Saturday, December 15, 2007
Fall semester examinations.....	Monday-Thursday, December 17–20, 2007
Christmas holiday.....	Monday-Tuesday, December 24–25, 2007
New Year's holiday.....	Monday, December 31, 2007–Tuesday, January 1, 2008

Spring Semester 2008

Martin Luther King, Jr. holiday.....	Monday, January 21, 2008
Spring semester classes begin.....	Tuesday, January 22, 2008
Spring break.....	Monday–Friday, March 17–21, 2008
Floating holiday.....	Friday, March 21, 2008
Last day of instruction.....	Friday, May 9, 2008
Study day.....	Saturday, May 10, 2008
Spring semester examinations.....	Monday-Thursday, May 12–15, 2008
UMM Commencement.....	Saturday, May 17, 2008

May Session 2008

May session classes begin.....	Monday, May 19, 2008
Memorial Day holiday.....	Monday, May 26, 2008
May session classes end.....	Friday, June 6, 2008

Summer Session 2008

Summer session term 1.....	Tuesday, May 27–Friday, June 27, 2008
Summer session term 2.....	Monday, June 30–Friday, August 1, 2008
Memorial Day holiday.....	Monday, May 26, 2008
Independence Day holiday.....	Friday, July 4, 2008

2008-09 Academic Calendar

Fall Semester 2008

New student orientation.....	Sunday-Tuesday, August 24–26, 2008
Fall semester classes begin.....	Wednesday, August 27, 2008
Labor Day holiday.....	Monday, September 1, 2008
Fall break.....	Monday–Tuesday, October 20–21, 2008
Thanksgiving holiday.....	Thursday–Friday, November 27–28, 2008
Last day of instruction.....	Friday, December 12, 2008
Study day.....	Saturday, December 13, 2008
Fall semester examinations.....	Monday–Thursday, December 15–18, 2008
Christmas holiday.....	Thursday-Friday, December 25–26, 2008
New Year's holiday.....	Thursday-Friday, January 1-2, 2009

Spring Semester 2009

Martin Luther King, Jr. holiday.....	Monday, January 19, 2009
Spring semester classes begin.....	Tuesday, January 20, 2009
Spring break.....	Monday–Friday, March 16-20, 2009
Floating holiday.....	Friday, March 20, 2009
Last day of instruction.....	Friday, May 8, 2009
Study day.....	Saturday, May 9, 2009
Spring semester examinations.....	Monday–Thursday, May 11–14, 2009
UMM Commencement.....	Saturday, May 16, 2009

May Session 2009

May session classes begin.....	Monday, May 18, 2009
Memorial Day holiday.....	Monday, May 25, 2009
May session classes end.....	Friday, June 5, 2009

Summer Session 2009

Summer session term 1.....	Tuesday, May 26–Friday, June 26, 2009
Summer session term 2.....	Monday, June 29–Friday, July 31, 2009
Memorial Day holiday.....	Monday, May 25, 2009
Independence Day holiday.....	Friday, July 3, 2009

University of Minnesota Mission Statement

The University of Minnesota, founded in the belief that all people are enriched by understanding, is dedicated to the advancement of learning and the search for truth; to the sharing of this knowledge through education for a diverse community; and to the application of this knowledge to benefit the people of the state, the nation, and the world.

The University's mission, carried out on multiple campuses and throughout the state, is threefold:

- **Research and Discovery**—Generate and preserve knowledge, understanding, and creativity by conducting high-quality research, scholarship, and artistic activity that benefit students, scholars, and communities across the state, the nation, and the world.
- **Teaching and Learning**—Share that knowledge, understanding, and creativity by providing a broad range of educational programs in a strong and diverse community of learners and teachers, and prepare graduate, professional, and undergraduate students, as well as non-degree-seeking students interested in continuing education and lifelong learning, for active roles in a multiracial and multicultural world.
- **Outreach and Public Service**—Extend, apply, and exchange knowledge between the University and society by applying scholarly expertise to community problems, by helping organizations and individuals respond to their changing environments, and by making the knowledge and resources created and preserved at the University accessible to the citizens of the state, the nation, and the world.

In all of its activities, the University strives to sustain an open exchange of ideas in an environment that embodies the values of academic freedom, responsibility, integrity, and cooperation; that provides an atmosphere of mutual respect, free from racism, sexism, and other forms of prejudice and intolerance; that assists individuals, institutions, and communities in responding to a continuously changing world; that is conscious of and responsive to the needs of the many communities it is committed to serving; that creates and supports partnerships within the University, with other educational systems and

institutions, and with communities to achieve common goals; and that inspires, sets high expectations for, and empowers the individuals within its community.

University Policies

Catalog Use—This catalog covers academic years 2007–2008 and 2008–2009.

The *Morris Catalog* is in effect for nine years; this catalog is in effect from fall 2007 through the end of summer session 2016. *Students returning to UMM after an absence should contact the Registrar's Office to determine which catalog will best fit their program plans.*

This publication is available in alternative formats upon request. Please contact the Office of Admissions, University of Minnesota, 240 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455; 612-625-2008; admissions@tc.umn.edu.

This catalog, produced by University Relations, is also available in electronic format on the Internet and may be accessed at www.catalogs.umn.edu.



Evening and summer courses are featured in the *UMM Continuing Education Catalog* and the *UMM Summer Session Catalog* respectively.

Class Schedule—The online *Class Schedule* lists course offerings with class times, rooms, instructors, and prerequisites. The *Class Schedule* is available online at www.morris.umn.edu/services/registrar/register.html.

Equal Opportunity—The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status or sexual orientation.

Inquiries regarding compliance may be directed to the Director, Office of Equal Opportunity and Affirmative Action, University of Minnesota, 419 Morrill Hall, 100 Church St. S.E., Minneapolis, MN 55455; 612-624-9547; eoaa@umn.edu. Web site at www.eoaffact.umn.edu.

Immunization—Students born after 1956 who take more than one University class are required under Minnesota law to submit a *Health History* form, available at www.mrs.umn.edu/services/hlth_serv/HSHistoryform.pdf, must be filled out and returned to the Health Service within 45 days after the beginning of the first term of enrollment in order for students to continue registering for classes at the University. Complete instructions accompany the form.

Extracurricular Events—No extracurricular events requiring student participation may be scheduled from the beginning of study day to the end of finals week. Exceptions to this policy may be granted by the chancellor, upon recommendation from the Scholastic Committee. Any exemption granted pursuant to this policy shall be honored, and students who are unable to complete course requirements during finals week shall be provided an alternative and timely opportunity to do so. Persons seeking an exception to this policy should contact the Office of the Chancellor.

Smoke-Free Campus Policy—Smoking is prohibited in all buildings of the University of Minnesota, Morris campus.

E-Mail—University-assigned student e-mail accounts shall be an official means of communication of the University with all students. Students are responsible for all information sent to them via the University

assigned e-mail account. Students who choose to forward the University e-mail account are still responsible for the information (including attachments) that was sent to the University e-mail account.

Questions regarding this policy statement can be sent to the Office of the Vice Chancellor for Academic Affairs and Dean.



General Information

Morris Campus

Located on 160 acres in west central Minnesota, the University of Minnesota, Morris continues the educational service that began on the campus in 1887. The campus was originally an American Indian boarding school, operated for 22 years, first by the Sisters of Mercy and then by the federal government. In 1909, as the federal government reduced the number of nonreservation boarding schools, the campus and facilities were deeded by Congress to the state of Minnesota on the condition “that Indian pupils shall at all times be admitted to such school free of charge for tuition and on terms of equality with white pupils.” Beginning in 1910 and for the next 53 years, the West Central School of Agriculture offered a boarding high school experience for rural young people under the auspices of the University of Minnesota’s Institute of Agriculture. To meet changing educational needs, as the School of Agriculture was being phased out, the Board of Regents in 1959 established the University of Minnesota, Morris.

Conceived at the outset as a four-year liberal arts college, UMM was to serve not only the population of west central Minnesota, but also was to provide an educational opportunity for students throughout the state who sought a rigorous and focused undergraduate liberal education in a small college setting. The guiding principles of selective admission, controlled growth, and academic excellence in a residential campus atmosphere have not changed for more than four decades.

With approximately 1,800 students and 125 teaching faculty, UMM combines the residential environment of the small liberal arts college with the advantages of being a campus of the University of Minnesota. The members of the faculty, representing more than 25 academic fields, are organized into four divisions: Education, Humanities, Science and Mathematics, and Social Sciences. A 14-to-1 student-faculty ratio and a strong institutional commitment to individual attention bring UMM students into frequent contact with faculty; undergraduates often collaborate with faculty in research and professional activities.

The UMM student body is diverse and talented. Campus currently is the collegiate home for students from throughout Minnesota, approximately 30 other states, and 15 foreign countries. In 2005, 19 percent of entering freshmen ranked in the top 5 percent of their

high school class; 32 percent were in the top 10 percent; and 54 percent were in the top 20 percent.

There are more than 85 student organizations, clubs, committees, and special interest groups at UMM. Throughout the year, the campus community and residents of the region enjoy a variety of cultural and cocurricular activities—theatre productions, concerts, recitals, music festivals, lectures, and athletic events.

UMM helped found the Council of Public Liberal Arts Colleges (COPLAC) in 1992. This national organization has 24 member colleges which share a common commitment to academic excellence and concern for undergraduate student development. The council sponsors professional development conferences for faculty in various disciplines and helps tell the public liberal arts story. The COPLAC Web site can be viewed at www.coplac.org.

Mission

The University of Minnesota, Morris is recognized as one of the best public liberal arts colleges in the nation because of its instructional excellence, commitment to research, numerous extracurricular programs and services, and strong sense of community. UMM’s mission as a rigorous, undergraduate, residential, liberal arts college is distinctive within the University of Minnesota. The Morris campus shares the University’s mission of teaching, research, and outreach. UMM provides undergraduate students with the resources of the University of Minnesota, yet it is a small personal school where students can shape their own education. The campus serves undergraduate students from Minnesota, and across the nation, and is a highly valued educational resource and cultural center for residents of West Central Minnesota. UMM attracts and serves a student body, faculty, and staff reflective of our multicultural society. The college empowers the campus community to participate fully and thoughtfully in a diverse society, regionally, nationally, and globally.

Accreditation

The University of Minnesota, Morris is accredited by the North Central Association of Colleges and Schools. Professional accreditation for elementary and secondary teacher preparation has been granted by the National Council for the Accreditation of Teacher Education and the Minnesota Board of Teaching.

Academic Programs

UMM's academic programs offer basic preparation for most of the professions and several specialized occupational areas. Each student program includes studies in three broad areas of knowledge—the humanities, the natural sciences, and the social sciences.

UMM students may choose a four-year curriculum leading to the bachelor of arts degree in any of the following fields.

- Anthropology
- Art History
- Studio Art
- Biology
- Chemistry
- Computer Science
- Economics
- Education
 - Elementary Education
 - Secondary Education (licensure only)
 - Coaching (endorsement only)
- English
- European Studies
- French
- Geology
- German
- History
- Latin American Area Studies
- Liberal Arts for the Human Services
- Management
- Mathematics
- Music
- Philosophy
- Physics
- Political Science
- Psychology
- Social Science
- Sociology
- Spanish
- Speech Communication
- Statistics
- Theatre Arts
- Women's Studies

UMM students can also work closely with faculty and counselors to design their own interdisciplinary program or “area of concentration.” Prototypes for areas of concentration already given provisional approval by the dean—including actuarial science, American Indian studies, American studies, animal behavior, art therapy, biochemistry with forensics science, biology with forensics science, biostatistics, chemistry with forensics science, criminal justice (see LAHS major on page 134), digital media studies, environmental studies, international studies, journalism, peace studies, and sports management—can be found online at www.morris.umn.edu/academic/areas. Students must fill out the appropriate forms and request final approval. The area of concentration forms are available online at www.morris.umn.edu/services/acad_affairs/aavarious.html#areaconcentration.

Students can also choose from among one- to four-year liberal arts curricula that offer preparation for admission to a variety of professional schools. (See the Preparation for Professional Degrees in Other Colleges section in this catalog.)

Honors Program

The UMM Honors Program offers a distinct, academically challenging, intellectual experience that amplifies and complements the liberal arts mission of UMM for motivated and high-achieving students. It does this by relying upon an interdisciplinary curriculum. Successful completion of the Honors Program provides students a UMM degree “with honors” as a recognition of their achievements and willingness to explore ideas beyond disciplinary boundaries.

All Honors students must enroll in “Traditions in Human Thought,” a course that explores significant works from history, literature, philosophy, and science from an interdisciplinary perspective. Students may then choose from several elective offerings each semester that examine a particular topic from an interdisciplinary perspective. The courses are often team-taught by faculty from different UMM academic divisions. As seniors, Honors students complete an Honors Project: a substantial scholarly or creative interdisciplinary work designed by the student working cooperatively with a project adviser. Upon completion, the project is defended before a panel of faculty from different disciplines. In

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addition to these requirements, Honors Program students often volunteer for service initiatives; attend public presentations, music, and theater performances; enjoy occasional field trips and outings; and mentor those just starting in the program.

All UMM students are eligible to participate in the Honors Program. Students normally apply to the program in the spring semester of their freshman year and begin coursework in their sophomore year. While everyone may apply, academic success in the fall semester, faculty recommendations, and a short essay may be used to limit the number to students with the proven motivation and likely ability to succeed in the program. A more detailed description of the Honors Program courses and requirements appears in the Academic Information section in this catalog.

Continuing Education at UMM

Continuing Education, Regional Programs and Summer Session (CERP), which shares in the liberal arts mission of UMM, serves as the primary educational outreach unit of the campus. CERP provides access to the academic resources and services of the University of Minnesota for current and potential students, as well as residents of western Minnesota and beyond. CERP organizes and administers evening, May Session, and summer term offerings, including a wide range of undergraduate and graduate, credit and noncredit courses and programs, mostly on campus (with some offered online). The courses offered through CERP are either 1) offerings unique to UMM that have no other divisional home and are frequently taught by faculty who have no ongoing appointment in the day school program, or 2) courses that are enhancements or special topics in specific disciplines. In conjunction with colleges on the University's Twin Cities and Duluth campuses, CERP offers several post baccalaureate programs. CERP develops and sponsors conferences, institutes, and workshops; it administers regional public service programs and provides educational advising for nontraditional students. CERP, especially through the Center for Small Towns (CST), serves as a liaison between the University and west central Minnesota communities by assisting with economic development initiatives, technology transfer, grant projects, and conducting applied research

on the educational needs of communities, groups, and individuals in the area.

CERP frequently serves as a first stop for adults in the region who want to learn more about the educational opportunities available to them at UMM, the University of Minnesota, or other colleges and universities in Minnesota. CERP staff help nontraditional students with referrals to appropriate UMM resources or educational resources available elsewhere. Call 800-842-0030 or 320-589-6450, or e-mail cerp@morris.umn.edu to arrange a meeting with an adviser.

Facilities

The UMM campus is situated on rolling prairie along the Pomme de Terre River adjacent to the city of Morris. The attractive, tree-shaded campus, with its 26 buildings, is located around a pedestrian mall. The campus recently completed a state-of-the-art renovation of Imholte Hall, and added a new artificial turf football stadium. The major buildings, including the Science and Math Complex, the Rodney A. Briggs Library, the Humanities Fine Arts Center, the Physical Education Center, the Student Center, the Food Service, and three of the residence halls, are modern in design and of relatively recent origin. They are blended with several older buildings of a gracious early 20th-century style which recalls the campus' early history, first as an American Indian boarding school, then as the University's West Central School of Agriculture. All major instructional areas as well as most administrative space are accessible to persons with mobility limitations.

The Humanities Fine Arts Center received the prestigious First Design Award from Progressive Architecture magazine. It houses two theatres, a recital hall, a gallery, art studios, music rehearsal rooms, two television studios, and a variety of special purpose classrooms.

The Physical Education Center houses three basketball courts in its main gymnasium. Seating capacity for games is 4,000. It also features a large multipurpose gymnasium, an exercise therapy and weight room, handball courts, and classrooms. It has a spacious natatorium consisting of an official, Olympic-size, eight-lane, swimming pool and a separate diving tank.

The Rodney A. Briggs Library provides reading and study space for 600 students and contains more than 220,000 volumes. Through excellent interlibrary loan arrangements, students can

borrow books and receive photocopies from the entire University of Minnesota library system as well as from other libraries throughout the state and region. The library also serves as a depository for certain government documents and houses the West Central Minnesota Historical Research Center, the Writing Room, and the Academic Assistance Center.

UMM has laboratory facilities for psychology and a simulation laboratory for political science students as well as many laboratories for the natural sciences. Students also have access to the modern Computing Services center, which supplies support services for instructional, research, and administrative programs on campus.

The Student Center opened in 1992. Intended as the community center for students, faculty, staff, alumni, and guests, the center contains meeting rooms, a café, a major auditorium, lounges, recreation rooms, study space, a banquet and ballroom, student activities and student organization offices, and the campus radio station.

The new science building and renovated existing science facilities give the campus a state-of-the-art science complex. The new 60,000-square-foot science building houses laboratories and computer classrooms to support the science and mathematics curriculum.

The 40,000-square-foot Regional Fitness Center, a campus/community partnership, houses a walking/jogging track, low impact cardiovascular area, warm water pool and water slide, and multipurpose court areas.



Admissions

The Office of Admissions is the primary source of information about the University for prospective students. It provides college catalogs, brochures, and other printed materials regarding all phases of the institution and its policies and programs. In addition, the office arranges personal visits with admissions counselors or with University faculty to discuss programs in which a student is interested. For more information about admissions and financial aid or to arrange a campus visit, call 1-888-UMM-EDUC. Persons with disabilities seeking accommodation during the admissions process may contact the disability services coordinator in Room 362, Rodney A. Briggs Library, 320-589-6179.

Admission Requirements

Persons seeking admission to the University of Minnesota, Morris on the basis of a high school diploma or through transfer from another college should check the admission requirements detailed on the following pages.

Applicants may obtain an application form from their high school principal or counselor or may request an application online at www.morris.umn.edu/prospective. Each application submitted must be accompanied by a nonrefundable fee of \$35, payable by check or money order to the University of Minnesota, Morris (please do not send cash through the mail). Online applications are also available at www.morris.umn.edu/prospective and must be accompanied by a nonrefundable fee of \$25.

Freshman Admission

Because of the nature of the curriculum, the standards of academic performance required, and the need to maintain the small size of the college, a selective admission policy is necessary. UMM currently admits approximately 500 freshmen to its fall semester class, most of whom are in the top 25 percent of their high school class. The current student body represents 30 states and 15 foreign countries; large and small, public and private high schools; and a variety of social, economic, and cultural backgrounds. Success with high school preparatory courses, class rank, ACT or SAT test scores, educational objectives, extracurricular activities, and other relevant information are all taken into consideration in the admission decision. If a student did

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not complete high school, a GED (General Equivalency Diploma) may be accepted in lieu of high school transcripts.

Applications for first-year applicants are reviewed on a rolling basis beginning September 1. Priority deadline for admission and competitive scholarships is December 15. Complete applications postmarked by December 15 will be considered for admission, UMM Competitive Scholarships, and UMM Automatic Scholarships. The final deadline to apply is March 15. Applications received after December 15 will be considered for admission and UMM Automatic Scholarships.

All admitted applicants are required to confirm their acceptance with a \$125 nonrefundable confirmation fee due on or before the national candidate's reply date of May 1. The confirmation fee reserves space in the class, and the date of receipt of the student's confirmation fee gives priority consideration for housing assignments and course registration. Students are encouraged to send their confirmation fees as soon as possible.

High School Preparation

Successful applicants to UMM must complete the following courses in high school:

1. *Four years of English*, with emphasis on writing, including instruction in reading and speaking skills and literary understanding and appreciation.
2. *Three years of mathematics*, including one year each of elementary algebra, geometry, and intermediate algebra. Students who plan to enter the natural sciences, health sciences, or quantitative social sciences should have additional preparation beyond intermediate algebra.
3. *Three years of science*, including one year of biological and one year of physical science.
4. *Two years of a single foreign language*. American Indian languages and American Sign Language may be used to fulfill this requirement. Applicants who are missing this requirement will not be denied admission if they are otherwise admissible.
5. *Three years of social studies*, including U.S. history. Applicants who are missing this requirement will not be denied admission if they are otherwise admissible.

Students are strongly urged to include visual and performing arts and computer skills courses in their college preparation program.

Standardized Test Scores

Freshmen must submit scores from the American College Testing (ACT) Assessment Program or the College Board's SAT Reasoning Test. As a basis for admission, applicants' ACT/SAT scores should clearly indicate strength in their aptitude and preparation. Applicants should complete the ACT/SAT assessment during one of the national testing periods (preferably spring or summer of the applicant's junior year of high school or fall of their senior year of high school) and have their assessment report sent to UMM (ACT code 2155, SAT code 6890). In certain instances in which the ACT/SAT is not readily available, scores from the on-campus residual ACT can be used for UMM admission purposes only. Please contact the Office of Admissions to schedule a residual ACT exam.

Freshmen With College Credit

Former PSEO (Post Secondary Enrollment Options) Students—Students who have acquired college credits from regionally accredited post secondary institutions through Minnesota's Post Secondary Enrollment Options Act must provide the UMM Registrar's Office with an official transcript of courses taken from a college or university during their junior and/or senior year in high school.

Special Admissions Status

Returning UMM Students—UMM students who interrupt their enrollment for less than one year must be re-enrolled through the Registrar's Office before they can register for classes. Those who interrupt their enrollment for more than one year, need to apply for readmission through the Office of Admissions. Former Morris students are considered for readmission on the basis of their past performance as space is available. Former Morris students who interrupted their enrollment to transfer to another college, must submit official transcripts from that institution with their application for readmission.

Non-Degree Students—Non-degree student enrollment is reserved for students, whether part- or full-time, who are not degree-seeking candidates, who are admitted on a term-by-term basis, and who have access to courses if space is available. Non-degree student status is reserved for six categories of students: 1) adults taking courses of special interest; 2) probationary admissions who will later become regular degree candidates; 3) UMM faculty and staff; 4) PSEO students taking courses for

enrichment; 5) PSEO students carrying a part- or full-time Morris freshman course load on campus; and 6) students from other colleges or universities enrolled for a single term in the Global Student Teaching or English Language Teaching Assistant Program. PSEO high school students interested in on-campus attendance should contact the Office of Admissions directly for applications materials. All others should contact the Office of Continuing Education, Regional Programs and Summer Session.

Deferred Admission

Students choosing to delay their matriculation into UMM after being admitted may defer their admission. To seek deferred admission, students first complete all admissions procedures. Once admitted, they request deferred status; after deferment has been granted, the \$125 nonrefundable confirmation fee will reserve space for up to one year.

International Students

Citizens of other countries are encouraged to apply for admission to the University of Minnesota, Morris. They are evaluated on an individual basis, with consideration given to the academic record of each student in relation to the educational system of her or his native country. Applicants must show evidence of exceptional academic achievement and probability of success at Morris. Letters of reference from individuals under whom the applicant has studied and evidence of good health are required. The Test of English as a Foreign Language (TOEFL) or SAT Reasoning Test is also required of all students applying from outside the United States unless their native language is English. A minimum score of 550 paper or 213 electronic is expected of Morris applicants. The TOEFL is offered worldwide at selected locations. Students who cannot locally obtain a TOEFL Bulletin of Information for Candidates, International Edition, and registration forms should write to the Test of English as a Foreign Language, Box 899, Princeton, NJ 08540, USA. Students not holding U.S. citizenship and entering this country on a student visa are assessed the standard tuition rate which is equal to that of resident tuition.

Senior Citizens

Minnesota residents age 62 years or older may be admitted to UMM classes at a minimal cost when space is available after tuition-paying students have been accommodated. Persons wishing to take a course without credit pay

only materials or other special fees. Those seeking credit for a course pay \$10 per credit as well as materials or other special fees. Further information is available from the UMM Office of Admissions.

Multi-U Enrollment

A consortium agreement among the University of Minnesota campuses allows students planning to earn their degree at their home college to attend another University of Minnesota college. Petition forms for attending another campus are available in the Registrar's Office. Requests to enroll through the consortium agreement should include academic reasons supported by the student's adviser or extenuating circumstances such as a student's need to be close to a medical facility or family in times of crisis. Registration and applications for financial aid are processed through the home college. Tuition and fees vary according to rates at the instructional unit(s).

Nonresidents and Reciprocity

Under reciprocity agreements, residents of North Dakota, South Dakota, Wisconsin, and Manitoba who attend UMM may pay a specially designated tuition rate. To obtain current figures and necessary forms, contact the student's home state higher education services office, the UMM Office of Admissions, or the appropriate office listed below:

North Dakota residents—Reciprocity Program, North Dakota Board of Higher Education, 10th Floor, State Capitol Building, Bismarck, ND 58501

South Dakota residents—Reciprocity Program, South Dakota Board of Regents, Box 41, Brookings, SD 57007

Wisconsin residents—Reciprocity Program, Wisconsin Higher Educational Aids Board, 137 East Wilson Street, Madison, WI 53707

Manitoba residents—Office of Admissions, University of Minnesota, Morris, 600 East 4th Street, Morris, MN 56267

The University of Minnesota, Morris is a national public liberal arts college and does not charge nonresident tuition as part of its efforts to make a high quality UMM education available to students from across the country and around the world. This policy applies only to the Morris campus of the University.

General Information

Planning to Transfer to Morris?

Minnesota's public colleges and universities offer course transferability information; visit www.minnesotacas.org. Students can streamline the process if they **PLAN AHEAD**, **ASK QUESTIONS**, and check into established transfer agreements.

Preparing for Transfer to UMM

Students currently enrolled in another college or university should

- discuss transfer plans with a UMM admissions counselor, 320-589-6035 or 1-888-UMM-EDUC.
- call or visit UMM. Students should request the following materials:
 - the UMM college catalog
 - information on financial aid (how to apply and by what date)
 - a transfer brochure
 - information on UMM admission criteria and materials required for admission (e.g., transcripts, test scores). Note that elementary education and secondary education programs require special admission in addition to general UMM admission. In these instances, admission to UMM does not guarantee admission to the program. These special admission requirements are listed under the respective majors in the Division Structure and Course Descriptions section in this catalog.
- make an appointment—after reviewing the above materials—to talk with the transfer coordinator. Be sure to ask about course transfer and degree requirements.

Applying for Transfer Admission to UMM

Applications submitted to UMM are reviewed on a rolling basis beginning September 1. The deadline for spring admission is November 1; for fall admission, May 1. Applicants may obtain a paper application from UMM or may request an application online at www.morris.umn.edu/prospective/. Each application submitted must be accompanied by a nonrefundable fee of \$35 payable by check or money order to the University of Minnesota, Morris (please do not send cash through the mail). Online applications are also available at www.morris.umn.edu/prospective/ and must be accompanied by a nonrefundable fee of \$25. A \$125 confirmation fee is due within 30 days after notification of admission.

Applicants must submit the following:

- A completed application for admission
- Official transcripts from every previous institution attended, whether courses were completed satisfactorily or not.

Students with less than one year of college must include high school transcripts and ACT/SAT scores. In general, transfer students with credits from an accredited college or university who have maintained at least a C+ average (2.50 cumulative GPA) in all credits attempted are considered for admission.

After a student has applied for admission, her or his transcript is evaluated. An Academic Progress Audit System (APAS) report showing how the courses meet specific degree requirements will be sent to the student as soon as transcripts from previously attended colleges are processed. If the student has questions about the evaluation, the student may contact the transfer specialist. If not satisfied, the student can appeal. See “Rights as a Transfer Student” below.

Understanding How Transfer of Credit Works

- UMM, as the receiving college, decides which credits transfer and whether those credits meet UMM degree requirements.
- As a general policy, UMM accepts transfer coursework from institutions that are regionally accredited and whose mission includes providing courses that are intended for transfer to baccalaureate programs. In addition, the transfer coursework must be comparable in nature, content, and level to courses offered by UMM and applicable to the bachelor of arts degree; “like” transfers to “like.”
- Credits and grades are assigned by the previous college. The University of Minnesota posts only the name of each previous college with the number of credits accepted on students' official transcripts. Transfer courses appear in the Academic Progress Audit System (APAS) reports. Transfer courses may be applied, with appropriate approval, to general education requirements and major and minor requirements. Grades earned in a transfer course cannot be applied to the GPA on the University of Minnesota transcript or to GPA-based degree honors. Under no circumstances will grades earned at other institutions be calculated into the University of Minnesota GPA.

- Religious studies from public regionally accredited colleges go through the normal transfer review. Religious studies from private colleges and colleges that do not have regional accreditation go through a special faculty review committee.
 - In addition to coursework from the traditional liberal arts disciplines, UMM accepts for transfer courses in those specialized programs offered on the Morris campus—education and management.
 - To be acceptable for transfer, coursework must be college level, not remedial. Coursework is remedial if the majority of the content is found in the usual secondary school curriculum.
 - To maintain consistency, UMM accepts transfer courses that are appropriate for application to the mission of a liberal arts college. Courses that are technical and applied will not transfer to UMM. Coursework in the generally accepted liberal arts disciplines (e.g., mathematics, philosophy, history, geology) is usually accepted.
 - UMM does not accept transfer coursework from proprietary technical colleges, business colleges, and similar postsecondary schools. However, credit from these programs for knowledge acquired in liberal arts may be obtained by special examination. In lieu of regional accreditation, determination must be made that instruction is collegiate level and appropriate for UMM's liberal arts mission before credit is awarded.
 - UMM accepts for transfer coursework with the grade of D or above, subject to the restrictions of UMM's own degree requirements. (See Grading Policy in the College Regulations section of this catalog.)
 - When grading systems are not compatible, credits are transferred with a grade of "S."
- The MINNESOTA TRANSFER CURRICULUM, an agreement for transferring general education requirements as a package from colleges within Minnesota Schools, Colleges, and Universities (MNSCU) will be honored for students who have fully completed that curriculum before transfer to UMM. The UMM degree requirements that will remain for transfer students who have completed the Minnesota Transfer Curriculum are:
 - foreign language, one year at the college level;
 - a total of 60 liberal education credits outside the discipline of the student's major, including applicable transfer credits;
 - major or area of concentration;
 - 30 credits in residence;
 - 2.00 cumulative GPA;
 - 120 minimum credits for the degree.
 - Application of courses to UMM general education requirements for students who are transferring to UMM from a participating college or university but who have not fully completed the Minnesota Transfer Curriculum will be done on a course-by-course basis. In general, the designation of courses from the previous college's version of the Minnesota Transfer Curriculum can be used as a guide.
 - If the student changes the career goal or major, it might not be possible to complete all degree requirements within the 120 minimum total credits required for graduation.

Adding UMM Programs After Earning a Degree from Another College or University

Students transferring to UMM after earning a degree from another college should note the following:

Teaching licensure:

- Students need to be admitted to both UMM and the education program.
- Students may earn a bachelor of arts degree that would be recorded on the University of Minnesota official academic transcript.
- Students may elect a "teaching licensure only" option without a degree notation on the official transcript.

Understanding UMM Degree Requirements for Transfer Students

- Not everything that transfers will help the student graduate. UMM's bachelor of arts degree program requires coursework in several categories: general education, major/minor courses with their prerequisites, and electives. The key question is, "Will the student's credits fulfill requirements of the degree or program chosen?"

General Information

Liberal Arts non-licensure major:

- Students must meet all bachelor of arts degree requirements at UMM; a major is one component of the degree.
- Catalogs are in effect at UMM for nine years from the first semester covered by the catalog.
- Students may use catalog requirements in effect at the time they enter UMM and later, but not catalogs in effect before their entrance date.
- The major, one of the components of the degree, is recorded with the UMM degree information on the official transcript.

Liberal Arts minor:

- Students meet all bachelor of arts degree requirements at UMM; a minor is an optional component of the degree.
- All of the items listed under adding a major at UMM (see the previous section) also apply to adding a UMM minor to a degree earned at another college or university.

Rights as a Transfer Student

A transfer student is entitled to

- a fair credit review and an explanation of why credits were or were not accepted;
- a formal appeals process. Appeals steps are: 1) the transfer student provides supplemental information to the registrar—a syllabus, course description, or reading list; 2) the registrar may ask a department(s) to review supplemental materials; 3) the student receives an updated APAS showing the outcome of the appeal; and 4) if the student is dissatisfied with the outcome, the student can make a further appeal to the Scholastic Committee.

For help with transfer questions or problems, see the UMM campus transfer coordinator in the Advising Office.

Transfer Within the University

A student who wishes to change from one college, school, or campus of the University of Minnesota to UMM must meet the UMM requirements for admission. Students may complete the Minnesota Transfer Curriculum prior to transfer. Students who have partially completed the Minnesota Transfer Curriculum must meet the UMM requirements for completion of the bachelor of arts degree.

- Transfer applicants from other colleges within the University to UMM who have maintained at least a 2.50 GPA are considered for admission.
- Students with less than a year of college must meet the admission requirements for freshmen and should have at least a 2.50 GPA in their college coursework as well.
- Application for transfer within the University of Minnesota should be made at the Registrar's Office on the campus where the student is currently enrolled or was last registered. The *Change of College* form, available at www.mrs.umn.edu/prospective/applynow/transferothertuofm.html, serves as the application for admission.
- Students should apply as early as possible before their expected date of transfer.

Registration and Orientation

Registration and up-to-date registration publications and information are available on the Registrar's Office Web site at www.morris.umn.edu/services/registrar.

New Students

Designated registration periods are held on campus for entering first-year students and transfer students who plan to enroll fall semester. Faculty advisers assist new students with academic planning and course selection.

New Student Orientation

UMM offers a comprehensive new student orientation program, which provides information on UMM's educational opportunities, services, and resources. Returning students help new students find their niche in campus life. New Student Orientation is held just before the beginning of the academic year. Students entering UMM spring semester take part in orientation activities held the first day of the semester.

Students in Attendance

Registration for students in attendance occurs during the previous term. Registration instructions and materials are issued from the Registrar's Office using the official University e-mail account and the Web.

Annual Planning—Long-range academic planning between students and their advisers occurs in the spring, preceding fall registration. Annual Planning provides an opportunity for significant discussion of the breadth and

quality of students' liberal education; career objectives, interests, and plans; and technical details of degree requirements. Students who will be freshmen or sophomores in the fall plan their next year; those who will be juniors plan their two remaining years. For students with fewer than 60 semester credits (freshmen and sophomores), notification of the adviser's approval of the Annual Plan is required in the Registrar's Office before students may register for fall semester.

Re-Enrollment

Students at Morris who do not register for two consecutive semesters (excluding summer) become inactive. They must contact the Office of Admissions for approval to regain active status before registering for another term.

Withholding Permission to Register

UMM reserves the right to deny students permission to register for a subsequent term or to withhold the release of grades, transcripts, or diplomas if students have not complied with academic or disciplinary regulations or financial obligations to the University. A student who believes that the policy of withholding transcripts, grade reports, diplomas, or permission to register has been unjustly applied in a particular case may appeal directly to the Office of the Chancellor for a resolution.

Change in Registration

Cancel/add procedures and deadlines are available online at www.morris.umn.edu/services/registrar/register.html. *Registration/Cancel-Add* forms are available in the Registrar's Office or online at www.morris.umn.edu/services/registrar/forms.html. After the first week of the semester, faculty permission is required for all course additions. Scholastic Committee approval is required for changes in grading systems and for course additions after the end of the second week of the semester.

Withdrawal from or changes to classes may affect refunds, grants-in-aid, loans, and scholarships. Students who receive any type of financial assistance should check with the financial aid staff before withdrawing from a class. The refund schedule is published online.

Withdrawals

Students may withdraw from classes without special permission through Week 9 of the semester. If a student withdraws from a course during the first two weeks of classes, that course

registration is not recorded on the student's transcript. If a student withdraws during Week 3 through Week 9, a symbol of W appears on the transcript. Detailed course cancellation deadlines are online at www.morris.umn.edu/services/registrar/canceladd.html.

Withdrawal after the cancellation deadline requires college approval and will be granted only for extenuating nonacademic reasons.

Discretionary Course Cancellation

Each student, during his or her undergraduate enrollment at the University of Minnesota, may withdraw from a course after the deadline once, up to and including the last day of class for that course, without proof of extenuating circumstances. This "one-time-drop" must be processed at the Registrar's Office, and a W appears on the transcript.

Canceling Out of College

Students who choose to discontinue their enrollment after registering for classes must process a complete Cancellation from College.

In this situation, students must contact the Registrar's Office. Cancellation processing includes notification of other campus offices and may involve financial aid repayment. Final clearance for cancellation takes place in the Registrar's Office. Until an official notice of cancellation is received in the Registrar's Office, spaces in the classes are reserved, and tuition and fees charges continue to accrue regardless of nonattendance.

Access to Student Educational Records

In accordance with regents policy on access to student records, information about a student generally may not be released to a third party without the student's signed release. (Exceptions under the law include state and federal educational and financial aid institutions.) The policy also permits students to review their educational records and to challenge the contents of those records.

Some student information—name, address, electronic (e-mail) address, telephone number, dates of enrollment and enrollment status (full-time, part-time, not enrolled, withdrawn and date of withdrawal), college and class, major, adviser, academic awards, honors received, and degrees earned—is considered public or directory information. Students may prevent the release of public information. To do so, they must complete a *Request to Suppress Directory Information* form in the Registrar's Office or

General Information

visit the “Directory Suppression” Quicklink on the Web at www.morris.umn.edu/onestop/.

Students are notified annually of their right to review their educational records. The regents policy, including a directory of student records, is available for review at the Chancellor’s Office on the Morris campus. Inquiries may be directed to the administrator of the unit responsible for maintaining the records in question or to the Vice Chancellor for Student Affairs, 309 Behmler Hall.

Refunds

In response to the federal Higher Education Amendments of 1992, the University of Minnesota has established a refund policy that follows the federal regulations with flexibility to serve both day school and Continuing Education students. There is an eight-week refund period.

Week one of both fall and spring semesters ends the following week, on the same day of the week that classes began. This allows Continuing Education students whose first course meeting is the Monday of Week 2 in spring semester at least one day of class before a penalty for cancellation is imposed.

Students are entitled to a full or partial refund or credit of tuition, student services fees, and special course fees as follows (refund schedules, including May session and summer session, can also be found on the Web at www.morris.umn.edu/services/business/refundschedules.html).

Refund Schedule

(for day school courses)

100% through the 6th class day

75% through the 10th class day

50% through the 15th class day

25% through the 20th class day

0% after the 20th class day

The Office of Admissions, the Office of Financial Aid, the Business Office, and the Registrar’s Office work together to verify the date of cancellation. Any aid that has been received by the student is recovered first, as required by the aid programs involved. The Business Office cashier either processes a refund to or collects the balance from the student depending upon remaining funds and outstanding obligations to the University. Refund examples are available upon request by contacting the Office of Financial Aid.

Students participating in approved study abroad or student teaching, internships, or other individual projects at remote off-campus locations may

be granted a waiver of the student services fees (with the exception of nonrefundable fees) for the period of their absence from the campus. Students should contact the registrar for further information on student services fee waivers. Prorated room and board rebates are also available in many cases. See the *Student Life Handbook* for details at www.morris.umn.edu/services/reslife/slhandbook.

Expenses

All UMM fees, deposits, and refund policies are subject to change without notice. Current information may be obtained from the UMM Business Office or online at www.morris.umn.edu/admissions/financialaid/costs.html.

Estimated Cost of Attendance

Per Year—The approximate yearly cost of attendance for a UMM student living on campus is currently \$17,362. This amount includes tuition and fees, room and board, and an estimate for textbooks and supplies. Not included are personal expenses such as clothing, travel, and recreation, which are best estimated by the individual student. (Reciprocity tuition rates vary from state to state.)

Per Semester—A breakdown of expenses per semester for a typical student in 2006-07 follows:

Resident and Nonresident

Tuition (15 to 20 credits)	\$4,360
Room and board (19 meals/week)	\$3,075
Mandatory fees	\$796
Textbooks and supplies	\$450
Total	\$8,681

Tuition Fees

Semester rates for students taking 15 to 20 credits:

Resident and nonresident **\$4,360**

Per-credit-hour tuition for students taking fewer than 15 credits per semester:

Resident and nonresident **\$290.67 per credit**

Students taking more than 20 credits are assessed the tuition amount shown in the 15-20 credit table *plus* \$290.67 for each additional credit in excess of 20 credits.

Example: A student taking 23 credits would be charged tuition as shown below:

Tuition band (15-20 credits)	\$4,360.00
Additional 3 credits (\$290.67 x 3)	\$872.01
Total tuition	\$5,232.01

Student Services Fees

Activities Fee—A fee of \$92 per semester is charged to all students registered for 6 or more credits. Those registered for fewer than 6 credits may elect to pay the fee to participate in the activities, events, and services it funds, which include cultural and social events sponsored by student organizations and other UMM units.

Athletic Fee—A fee of \$15 per semester is charged to all students registered for 6 or more credits.

Health Service Fee—A fee of \$60 per semester is charged to all students registered for 6 or more credits. Those registered for fewer than 6 credits may elect to pay the fee in order to have access to the Health Service, which provides limited outpatient care. (Students must have adequate health insurance coverage to supplement this care.)

University Center Fee—A fee of \$39 per semester is charged to all students and consists of: \$20—debt service for the facility, \$13—services and operating expenses, \$6—facility repair and improvement.

Technology Fee—A fee of \$52.50 per semester is charged to all students registered for 6 or more credits. This fee helps fund technological enhancements on campus that are of direct benefit to students and their educational programs.

RFC (Regional Fitness Center) Fee—A fee of \$50 per semester is charged to all students registered for 6 or more credits and helps fund student memberships and programs at the Regional Fitness Center.

Special Course Fee (charged in addition to tuition):

Music Lesson Fee—A fee of \$350 per credit is charged to students registered in Individual Performance Studies (Mus 1200 through 1223), Class Piano (Mus 1044), and Class Guitar (Mus 1045). (Note: Applied music instructors are not expected to make up sessions for unexcused student absences from scheduled lessons.)

Studio Art Materials Fee—A materials fee is charged for supplies that are consumed by students who are registered in many of the Studio Art (ArtS) courses. The amount of the fee varies by the course being taken.

Supplemental Fees

Application Fee—A nonrefundable fee of \$35 must be submitted with a paper application for admission to UMM. The online application fee is \$25.

Admissions Confirmation Fee—A fee of \$125 is necessary for students to show their intent to enroll at UMM.

Credit by Examination Fee—A fee of \$50 per credit is charged to students seeking credit for acquired knowledge that they believe is comparable to that required to complete a specific course offered at UMM.

Health Insurance Fee—All UMM students who are registered for 6 credits or more are required to provide proof of health insurance. Students who are unable to provide such proof are required to carry insurance through a group plan provided by an outside agency contracted through UMM Health Services. The annual cost for the insurance premium is \$1,360. Students from foreign countries are required to purchase the UMM group insurance or they may seek a waiver based on proof of equivalent coverage. For more information, call Health Services at 320-589-6070.

U-Card Replacement Fee—A fee of \$15 is charged to replace a U-Card, the University's identification card. The fee applies to registered UMM students who have lost or damaged their cards.

Locker Fee—A fee of \$10 per year is charged for use of a locker and towel service in the Physical Education Center. Lockers also are available in the lower level of the Student Center and are accessible in two ways. Coin operated lockers are 25 cents per use and an unlimited use locker may be rented for \$5 per semester (\$3 for the summer). These lockers are located on the west wall across from Louie's Lower Level. Unlimited use lockers may be rented from the Information Center.

MPIRG Fee—The Minnesota Public Interest Research Group (MPIRG) is a nonprofit, nonpartisan, student-run organization funded by an optional student fee of \$4.13 per semester. A statewide advocacy group, MPIRG provides students the opportunity to speak out on public issues and work for social change. Students may, at the time of registration, elect not to be billed for this fee or may recover it during a refund period scheduled each semester by local representatives.

General Information

Parking Fee—A fee of \$75 per academic year is charged for a permit to park in campus lots.

Testing Service Fees—Students are not assessed any testing fees for placement exams (foreign language and math) at UMM. Exams for national testing companies or agencies, i.e., for admissions, licensing, or CLEP, are administered by the UMM Test Center and students register with and pay fees to the respective testing company. UMM's Test Center is located in the Student Counseling office, 235 Behmler Hall.

Transcript Fees—Unofficial transcripts are available online at no cost to currently registered students. If a student has no financial holds on his/her record, official transcripts are issued for a fee at the student's signed request. Transcripts are processed in two to three working days. Rush and fax service are also available at a higher rate. For current prices, students may call the Registrar's Office, 320-589-6030, or view them online at www.morris.umn.edu/services/registrar.

University Fee—The University fee helps cover infrastructure and administrative support costs in a wide variety of areas. It is not dedicated to one particular need or to one particular office. This fee is assessed to all students and is prorated as follows: \$48.75 per credit for students taking 1-9 credits; \$487.50 for students taking 10 credits or more.

Deposits

Housing Deposit—A \$200 nonrefundable deposit must be paid by all newly admitted UMM students seeking on-campus housing.

Key Return Deposit—A \$10 refundable deposit is charged for each key issued for an outside door of, or a room in, a campus building to ensure its return.

Payments

Students must pay tuition, student services fees, special course fees, room and board, and other financial obligations by the due date shown on the billing statement. It is the student's obligation to pay bills on time in order to avoid late fees.

Installment Option Fee

Students may elect to pay their tuition and fees in three installments. Under this plan, one third of the total amount due for the semester must be paid in each installment. A \$10 installment fee is added to each payment. Students who do not

pay through the installment plan are expected to pay their bill in full by the due date on the first bill produced for the term.

Late Payment Fees

Students who fail to pay at least one third of the amount due on their first bill of the term are assessed a \$20 late fee. Accounts not paid in full by the due dates on all subsequent bills are assessed an additional \$20 late fee each time a due date passes.

Financial Aid

The University of Minnesota, Morris financial aid program is dedicated to providing students with the most comprehensive and simplified methods of financial aid delivery. The financial aid program is designed to provide financial assistance to as many students as possible in an equitable and consistent manner. For more information on financial aid programs visit www.morris.umn.edu/financialaid.

Financial Aid Application Procedure

The priority deadline to complete and submit the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA for the University of Minnesota, Morris to the federal processor is March 1. Visit www.morris.umn.edu/financialaid/applying.html for more information on applying for financial aid.

Eligibility Requirements

The Free Application for Federal Student Aid (FAFSA) is the only application needed to receive federal, state, or institutional financial aid at UMM.

The financial aid awarded to students is based on financial need and/or the eligibility criteria of scholarship, grant, loan, and employment programs. The student's Expected Family Contribution (EFC) and financial need is determined by federal methodology based on information provided in the FAFSA. The EFC determines what the student/parent(s) can reasonably be expected to pay toward the student's educational costs. UMM uses the EFC to determine financial need and eligibility for federal, state, and institutional financial aid based on federal, state, and institutional formulas, criteria, policy, regulations, and the availability of funds under the direction of the University administration.

Unusual Circumstances

When/if a family's financial situation changes after the Free Application for Federal Student Aid (FAFSA) has been received by the federal processor, the student should contact the Financial Aid Office at 1-800-UMM-EDUC or 1-320-589-6035.

Death, separation, divorce, unemployment, loss of employment, unusual medical or dental expenses, tuition expenses for children attending a private elementary or high school, or loss of non-taxable income or benefits are unusual circumstances that may affect financial aid eligibility.

A financial aid officer can help determine whether unusual circumstance adjustments should be made to the processed FAFSA by requesting the appropriate documentation.

Satisfactory Academic Progress (SAP)

Each term, the Financial Aid Office is required by federal and state regulations to determine if students receiving financial aid are making Satisfactory Academic Progress. To maintain eligibility for federal, state, and institutional aid, students must meet University of Minnesota, Morris academic progress standards for financial aid recipients. Visit www.morris.umn.edu/financialaid/sap.html for more information on Satisfactory Academic Progress.

Academic Progress Requirements

The UMM Campus Assembly has established minimum academic progress requirements based on two measures: the cumulative GPA, which measures performance over time; and the term GPA, which measures performance within the term. The authority for administering the requirements and taking necessary action rests with the Scholastic Committee. Visit www.morris.umn.edu/Scholastic/AcademicProgress/ for more information on academic progress requirements.

Types of Scholarships and Grants

Unless otherwise noted, a student must be enrolled for at least 12 credits to receive scholarships and grants. Visit www.morris.umn.edu/financialaid for more information on scholarships and grants.

Automatic First-Year Academic

Scholarships—Automatic First-Year Academic Scholarships are awarded based on high school class rank and other criteria. Home-schooled students and those attending high schools that

do not have high school ranks are considered for these scholarships individually based on additional criteria.

- **Chancellor's Scholarship:** Students graduating in the top five percent of their high school class receive \$12,000 with this automatic \$3,000/year scholarship (high school rank in the 95-to-99th percentile).
- **Dean's Scholarship:** Students graduating in the top 10 percent of their high school class receive \$8,000 with this automatic \$2,000/year scholarship (high school rank in the 90-to-94th percentile).
- **Associate's Scholarship:** Students graduating in the top 20 percent of their high school class receive \$4,000 with this automatic \$1,000/year scholarship (high school rank in the 80-to-89th percentile).

These scholarships are renewable for four-years by maintaining a 2.50 GPA.

Note: Automatic First-Year Academic Scholarships may not be combined with the Prairie Scholars Award, Morris Scholars Award, or National Merit Scholarship.

Automatic Transfer Academic

Scholarships—Students transferring to UMM from an accredited institution with 30 transferable credits and a 3.75 GPA qualify for a \$2,000 non-renewable scholarship; those with at least a 3.50 GPA qualify for a \$1,000 non-renewable scholarship. These scholarships can be used during a student's first year at UMM. Only credits earned after high school graduation are considered. University of Minnesota transfer students, those readmitted to UMM, and students who have already earned a bachelor's degree are not eligible for this scholarship.

National Merit Scholarship Winners—

National Merit Scholarship winners who choose UMM as their first-choice college receive the full-tuition National Merit Scholarship. This scholarship is renewable for four years by maintaining a 2.50 GPA.

Note: National Merit Scholarship winners are not eligible to receive the Prairie Scholars or Morris Scholars Awards.

National Merit Semi-Finalists and Commended Scholars—

National Merit Semi-Finalists or Commended Scholars receive \$4,000 with this automatic \$1,000/year scholarship, renewable for four years by maintaining a 2.50 GPA. This scholarship is given in addition to the Automatic First-Year Academic Scholarship.

General Information

Note: National Merit Semi-Finalists or Commended Scholars who have been awarded the Prairie Scholars Award or Morris Scholars Award will have the Automatic First-Year Academic Scholarship and National Merit Semi-Finalists or Commended Scholars Awards replaced by the Prairie Scholars Award or Morris Scholars Award.

Prairie Scholars Award—Prairie Scholars are selected during a competitive interview process. This award is based on a scholarship essay and an outstanding academic and leadership record. The Prairie Scholars Award is a full-tuition scholarship, renewable for four years by maintaining a 2.50 GPA.

Morris Scholars Award—Morris Scholars are selected during a competitive interview process. This award is based on a scholarship essay and an outstanding academic and leadership record. The Morris Scholars Award is a half-tuition scholarship, renewable for four years by maintaining a 2.50 GPA, along with a one-time, \$2,500 scholarly stipend. The stipend may be used during the second, third, or fourth year at UMM to engage in an eligible scholarly experience (e.g., to study abroad, to participate in a research or artistic project, or for travel to academic conferences).

Founders Opportunity Scholarship—The Founders Opportunity Scholarship is a special UMM award that benefits qualified new incoming students from Minnesota. This scholarship guarantees grant and gift assistance in an amount at least equal to tuition and required fees for all new incoming students who are Minnesota residents and who are eligible for federal Pell grants. As part of this commitment, the University will match whatever Pell grant award a student receives. Students must complete the Free Application for Federal Student Aid (FAFSA) by March 1 each year, be enrolled full-time in a degree program, maintain consecutive term enrollment for four years, and maintain satisfactory academic progress. This scholarship is renewable.

Clyde Johnson Music Scholarship—Students who plan to enter UMM as music majors and who have demonstrated outstanding music ability and performance may be eligible for this scholarship. A separate application is necessary. Applicants are evaluated on the basis of an audition CD or cassette and a statement describing his/her musical background and career goals. New transfer and first-year students are both eligible. Visit www.morris.umn.edu/financialaid/merit1.html for the application.

Donor-Funded Scholarships—UMM offers more than 60 scholarships with funds donated to UMM by private donors. Review scholarship information at www.morris.umn.edu/financialaid/scholarships.html.

Josephine L. Merriam Scholarship—This scholarship is awarded to first-year male students who demonstrate financial need as determined by Financial Aid Office criteria.

William W. Stout Scholarship—This scholarship is awarded to first-year female students who demonstrate financial need as determined by Financial Aid Office criteria.

Supplemental Educational Opportunity Grant (SEOG)—The Federal Supplemental Educational Opportunity Grant is restricted to undergraduate students. This grant is based on financial need, enrollment status, the availability of funds, and the amount of other aid the student is receiving.

Pell Grant—This grant is awarded to students who are pursuing a first undergraduate degree or teaching certification. The actual Federal Pell Grant award depends on the cost of education, financial need, enrollment status, and the availability of funds.

Minnesota State Grant—The Minnesota State Grant is awarded to students who are pursuing a first undergraduate degree and are Minnesota residents attending an eligible Minnesota institution. This grant is based on financial need and is limited to eight semesters or the equivalent of four years at full-time status. Students must be enrolled for 15 credits to receive the maximum Minnesota State Grant. When students are enrolled for fewer than 15 credits, the Minnesota State Grant will be prorated.

University Grant—The University Grant is restricted to undergraduate students. This grant is awarded based on the institution's Financial Aid Office criteria, the availability of funds, enrollment status, and the amount of other aid the student is receiving.

Academic Competitiveness Grant—This grant is a federally-funded gift program. Students who are Federal Pell Grant recipients, enrolled full-time in a degree program, and have successfully completed a rigorous secondary school program are eligible for this grant. Freshmen can receive an award of up to \$750 and sophomores can receive up to \$1,300.

National Smart (Science and Mathematics Access to Retain Talent) Grant—This grant is a federally-funded gift program. Students who are Federal Pell Grant recipients, enrolled

full-time in a degree program, have a college cumulative GPA of 3.00 or higher, and are juniors or seniors majoring in one of the following: physical, life, or computer science, engineering, mathematics, technology, a critical foreign language (UMM does not offer a major in a “critical” foreign language) can receive \$4,000.

Multicultural Excellence Program (MEP)—This is an academic support program for St. Paul, Minn., school students and is designed to enable more multi-ethnic students to complete a four-year college degree. Each year, students with potential are selected by the St. Paul Public School District to participate in this program. UMM strongly supports this program and covers the cost of tuition, education related fees, and course books. Students must be enrolled for at least 12 credits. The MEP is available until the student receives an undergraduate degree or up to a maximum of five years.

The MEP award ensures that the total support from the Federal Pell Grant, Minnesota State Grant, and UMM grants cover the costs of tuition, fees, and books.

Visit www.morris.umn.edu/financialaid/mep.html for more information.

Types of Loan Programs

Visit www.morris.umn.edu/financialaid/loanprograms.html for more information about the following Loan Programs.

Ford Federal Direct Subsidized Loan—This loan has a fixed interest rate of 6.8 percent. The Ford Federal Direct Subsidized Loan is a need based loan program, subsidized by federal funds, that allows students to borrow money interest-free while in school at least half-time.

Ford Federal Direct Unsubsidized Loan—This loan has a fixed interest rate of 6.8 percent. The Ford Federal Direct Unsubsidized Loan is a non-need-based program. Students will be charged interest on this loan, but have the option to defer the interest while in school at least half time.

Federal Perkins Loan—The Federal Perkins Loan has a fixed interest rate of 5 percent. This loan is awarded using the institution’s financial aid office criteria, and is based on financial need, the availability of funds, enrollment status, and the amount of other aid the student is receiving.

Ford Federal Direct PLUS Loan—This loan has a fixed interest rate of 7.9 percent. Parents of a dependent student may apply for a Ford

Federal Direct Parent Loan for Undergraduate Students (PLUS), a non-need-based program that allows a parent to borrow an amount up to the cost of attendance, minus other financial aid awarded.

Alternative Loan Programs

UMM recognizes that even with the assistance of traditional aid resources, not all students and their parents will have the financial means to pay for a college education. UMM cannot recommend an alternative loan program. Since each student’s needs are unique, students and their co-signers should evaluate each loan program to determine the best loan for their educational plans.

Student Employment at UMM

There are three types of student employment: Federal Work-Study (FWS), State Work-Study (SWS), and Institutional Work-Study (IWS). All employment programs are handled in the same manner, however, eligibility requirements differ for each. Students must be registered for a minimum of 6 credits per semester to maintain eligibility for all student employment. Visit www.morris.umn.edu/financialaid/studentemployment.html for information on student employment.

Research and Mentorship Programs

Morris Academic Partnership (MAP) Program—This program benefits full-time juniors by allowing them to assist faculty in research and/or teaching endeavors through assignments designed to enhance the students’ intellectual pursuits and increase interest in graduate or professional study. Contact the Office of the Vice Chancellor for Academic Affairs and Dean or visit www.morris.umn.edu/services/acad_affairs/mapguide.html for more information.

Morris Student Administrative Fellow Program (MSAFP)—This program benefits students by providing the experience of working in administrative or faculty offices. Students undertake projects that enhance their intellectual competence and support their interest in graduate or professional study while assisting in administrative and managerial projects campus wide. Contact the Office of the Vice Chancellor for Academic Affairs and Dean or visit www.morris.umn.edu/services/acad_affairs/MSAFP_Guidelines.html for more information.

General Information

Multi-Ethnic Mentorship Program (MMP)—The Multi-Ethnic Mentorship Program benefits students of color with a second-year standing of 24 to 60 cumulative credits by allowing them to work with faculty and/or staff mentors on long-term research projects. Students gain practical academic skills and a clearer sense of their academic and career interest. MMP places emphasis on developing the talents of students and ensuring their success at UMM and beyond. Contact the Multi-Ethnic Student Program Office or visit www.morris.umn.edu/services/msp/programs/MMP.html for more information.

Undergraduate Research Opportunities Program (UROP)—This program benefits students by allowing them to work with a faculty member on research, scholarly, or creative projects. Students develop detailed knowledge of research methods and have unique access to the faculty and facilities of the entire University of Minnesota system. Contact the UROP Office or visit www.urop.umn.edu for more information.

American Indian Programs

American Indian Tuition Waiver—In recognition of the Morris campus' history as an American Indian boarding school in the 1800s, the Minnesota Legislature mandated that American Indians attending Morris are not required to pay tuition. Students must complete the *American Indian Tuition Waiver* application and present acceptable documentation of blood quantum or blood line/heritage, such as Tribal Registration, Certificate of Indian Blood, or other legal documentation of American Indian heritage. Applicants are not required to be residents of Minnesota. For the application, visit www.morris.umn.edu/financialaid/forms/tuitionwaiver.pdf.

Minnesota Indian Scholarship Program (MISP)—Students who show membership in a federally recognized Indian tribe, possess one-fourth or more Indian ancestry, are Minnesota residents, and have financial need are encouraged to apply with the Minnesota Department of Education at http://education.state.mn.us/MDE/Academic_Excellence/Indian_Education/index.html. Students receive an official notification of their award from the MISP. Students must be enrolled for at least 12 credits.

Bureau of Indian Affairs Scholarship (BIA)—Students who are enrolled with a state or federally recognized tribe are encouraged to apply for BIA funds by directly contacting their BIA Higher Education Program at www.doi.gov/bureau-indian-affairs.html. The amount awarded is based on financial need and availability of funds through the BIA. Students are encouraged to apply with their tribe as early as possible. Students receive an official notification of an award from the BIA. The student must be enrolled for at least 12 credits.

Ethel M. Curry Indian Scholarship—This scholarship is awarded to new first-year students and may be renewed for an additional consecutive three years if students remain in satisfactory academic standing. This scholarship is awarded by the Financial Aid Office. There is no application required or available for the scholarship. Students are notified by the Financial Aid Office. The student must be enrolled for at least 12 credits.

Programs for Students with Disabilities

Blind and Deaf Student Tuition Waivers—Students may be eligible for full-tuition waivers if they are legally blind Minnesota residents, or for partial assistance if they are currently enrolled deaf students. To apply for either of these tuition assistance programs students must complete the *Tuition Waiver/Assistance for Blind or Deaf Students* form.

Vocational Rehabilitation—Students may be eligible for vocational rehabilitation if they have a physical or mental disability that makes it difficult for them to find or keep a job. When students are determined eligible for services, Minnesota's vocational rehabilitation program does consider students' eligibility for other financial aid and may fund some direct costs such as tuition, student service fees, books, supplies, and equipment. For more information, contact the Division of Rehabilitation Service (DRS), 390 North Robert Street, St. Paul, MN 55101; 651-296-5616 or 1-800-328-9095; or a local DRS office in the student's home county. Visit www.deed.state.mn.us/rehab/index.htm for more information.

Other Educational Programs

Minnesota War Orphans Tuition Waiver—

Students may be eligible for a full-tuition waiver and assistance to help with other education expenses at a Minnesota institution. To be eligible for this program, students must have lost a veteran parent through death as a result of a service-related injury or disease. Contact a Veterans Service Officer in the student's county to help apply for these education benefits. Visit www.mdva.state.mn.us/education.htm for more information.

Veterans' Education Benefits—UMM is approved by the Minnesota State Approving Agency to participate in all Veterans' Education Assistance Programs. These programs include benefits for those who have served on active duty and their eligible dependents, as well as members of the Reserve and National Guard. The student must be enrolled for at least 12 credits. Visit www.morris.umn.edu/financialaid/veterans.html for more information. Contact the director of financial aid for coordinated veterans' services support at UMM.



Student Services and Opportunities

At UMM, students will find a wide range of activities and services that can enhance their education and enrich their personal experience. They will be part of a learning community that is continually changing and growing. UMM is a friendly campus where students will come to know many fellow students and staff members on a first-name basis. Each person is not just another student, but an individual responsible for making his or her own decisions and using the many resources of the campus to make the most of her or his education.

Many of the services and extracurricular opportunities available at UMM are described in the following pages. Campus services from Financial Aid to Health Service support students during their college experience. Varied social, educational, and recreational programs extend learning beyond the classroom and provide a full range of night and weekend activities. Opportunities include participation in more than 85 student clubs and organizations where students write for the campus newspaper, deejay on the student radio station, and pursue interests from theatre to international affairs. Intercollegiate athletics, intramurals, club sports, and personal fitness opportunities are available for women and men, teams and individuals. Each of these services and activities enhances the UMM college experience. For the most complete listing of resources and student services on the Morris campus, students should refer to the *Student Life Handbook*, available online at www.morris.umn.edu/services/reslife/slhandbook.html.

Briggs Library

Rodney A. Briggs Library occupies a position at the heart of the UMM campus from physical, virtual, and intellectual perspectives. Located just a few steps from the Student Center in the middle of campus, the library building houses more than 220,000 volumes, as well as journals, music scores, DVDs, CDs, videos, and other materials. More than 50 networked computers are available, and there is wireless capability throughout the building. The library is also a federal documents depository and maintains a collection of children's books and materials to support UMM's highly rated teacher education program. In addition to housing the UMM Archives and West Central Minnesota Historical

Research Center, the library includes a growing number of additional special collections (print and digital) to support historical and other specialized research. Extensive online resources are provided via the library's Web site. This site serves as the gateway to the library's more than 120 subscription databases and 20,000 online journals, and provides links to other scholarly resources. The library's interlibrary loan service has a high success rate of obtaining materials not available locally.

Open 94 hours a week (with extended hours during exam weeks), the library provides a variety of quiet study areas as well as group activity space.

All new students receive instruction in finding and using print and electronic resources at information literacy sessions offered by the library team. Briggs Library staff provide reference assistance in person, by phone, and by e-mail.

Media Services

Media Services supports the teaching, research, and outreach mission of the UMM campus by providing a wide range of instructional technology services. It is responsible for designing technology enhanced classrooms and installing and maintaining electronic systems and equipment. All general purpose classrooms are equipped with overhead projectors, screens, network connections, and DVD/VCR playback. All science building classrooms are equipped with computers, data projectors, and DVD/VCR players. In Imholte Hall, all classrooms are equipped with LCD touch panels for controlling all equipment, including computers, data projectors, DVD/VCR players, and sound systems.

A 12-station digital media lab is available for faculty teaching classes in studio art, broadcasting, and theatre scene design. The lab also is available to all UMM students who are interested in digital media production. Supported software includes Photoshop, Final Cut Pro, iMovie, InDesign, Dreamweaver, PowerPoint, and other digital imaging programs. Media Services offers workshops on the use of these programs to the campus community throughout the year.

The department provides a pool of equipment for instructional use that includes Mac and PC laptop computers, data projectors, digital still and video cameras, and portable video production equipment. Students may check

out this equipment on a short-term basis—at no cost—for use on class presentations and individual media projects.

Media Services supports and maintains the interactive television network for the campus. Activities requiring the use of interactive video networks to connect with other networks world wide can be requested through the department office.

Costs for media assistance and production services, except for consumable materials, are not charged to academic and administrative units, student organizations, and registered students engaged in instructional activities.

Computing Services

Computing Services supports all UMM instructional, research, and administrative programs. It provides the UMM campus network, including wireless access points in all residence halls; central Internet, Web, and e-mail services; the computing help desk; and five student labs with approximately 130 Macintosh and Windows computers. Two of the computer labs are open 24 hours a day during the academic year. The Computing Services main facility—including the help desk, which is staffed 45 hours a week—is located in 10 Behmler Hall.

Access to UMM computing facilities is free to all students. Software available on Computing Services' lab computers includes Internet utilities for e-mail, Web browsing, and Web page creation; word processing, spreadsheet, and related office productivity programs; and academic discipline-specific tools, such as statistical packages, graphic and video editors, databases, geographic information systems, and computer language programming environments. All UMM students have e-mail and Web server accounts, and students may retain their system accounts for up to five years after leaving UMM.

The University library's extensive online resources and student services are accessible directly from high-speed, switched ResNet network connections in every UMM residence hall room. Once students register with Computing Services, they can use numerous wireless access points in more than a dozen buildings on campus. For details, visit www.morris.umn.edu/wireless.

Additional information is available online at the Computing Services Web site, www.morris.umn.edu/cs.

Registrar's Office

The mission of the Registrar's Office is to provide a service-oriented environment that promotes and supports the academic goals of students, faculty, and staff in accordance with University and federal guidelines. Assistance is available on a walk-in basis, via the Web, by telephone, or by appointment. The Registrar's Office is located at 212 Behmler Hall, 320-589-6030. The Registrar's Office Web site provides links to details about these services at www.morris.umn.edu/registrar/.

The Registrar's Office is responsible for class schedule production, registration, processing grades, transfer credit evaluation, the Academic Progress Audit System (APAS), degree clearance, transcript distribution, certification of full-time attendance for loan deferments and scholarships, and certification of eligibility for good-student discounts on auto insurance.

Student Counseling

Students face more than just academic challenge while attending UMM. Many of them face their passage into adulthood. Student Counseling at Morris helps students through this passage on intellectual, physical, spiritual, emotional, occupational, and social levels. Counseling staff help students become aware of potential problems, pitfalls, and opportunities during this exciting, challenging, and often difficult transition in life.

Students are offered short-term, personal counseling for personal concerns, or help with academic major and career decision making. Many students use this service to share feelings and to discuss problems in a comfortable and confidential setting. All students are entitled to this service free of charge.

Student Counseling is committed to working closely with student leaders. In an advisory capacity, the counseling staff supports the resident advisers and Peer Health Educators. Peer Health Educators (PHE) is a select group of volunteer students who provide information and programs to students on primarily physical, emotional, and sexual health and wellness issues. PHE meets in the Wellness Center on the ground floor of Gay Hall, next to the Health Service.

Student Counseling is UMM's testing center for institutional placement exams (mathematics and foreign language), exams for credit (CLEP), and national undergraduate and graduate school admission or licensing exams (ACT, GRE, MCAT, MAT, LSAT, PPST, and Praxis Exams). Questions regarding test registration and procedures can be answered by the staff. Student Counseling also provides clinical and personality testing inventories for UMM students.

Student Counseling staff also serve as a confidential resource for students who feel victimized by sexual, racial, or GLBT harassment. When students believe they have been harassed, they can speak to staff in a completely confidential and safe environment.

The Career Center

The Career Center offers a variety of career planning, field experience education, and job and graduate/professional school transition services. These services are available to both current students and alumni who need assistance in establishing career planning and job search strategies.

Career planning activities offer the opportunity to evaluate skills, values, and interests that affect career decision making. Career planning may include personal counseling, exploring the Career Library, occupational testing, and participation in life/work planning, career fairs, and outreach groups.

Field experience education at UMM is offered through an internship program. Internships provide the opportunity to earn credit for study and work in one's chosen field. UMM has established internships in business, counseling, public relations, television and radio production, social work, public administration, computer programming, education, scientific research, and many other fields.

Career transition services assist students and alumni in seeking employment or admission to graduate or professional schools. These services include providing information about job vacancies in education, government, business, and industry; arranging on- and off-campus interviews between employers and candidates; collecting and maintaining current information about salary and employment trends; and offering assistance with résumé and letter writing, job search, and interviewing techniques.

Multi-Ethnic Student Program

The Multi-Ethnic Student Program (MSP) is dedicated to working with student affairs and academic offices to meet the special concerns and needs of U.S. students of color. MSP was instituted in response to the educational and socioeconomic problems fostered by racism and prejudice in our society. MSP works to ensure a stable, strong, and supportive environment for students of color by providing academic assistance and other quality student support services designed to improve the opportunities for students of color to participate fully in the life of the University and to successfully transition from college to career.

Commission on Women, Women's Resource Center, and Women of Color

UMM is the home of various organizations that promote the growth and development of women faculty, staff, and students. The Commission on Women (CW) was founded in 1988 and seeks to strengthen the entire community by enriching women's working and learning environments. Under the leadership of a coordinator, the UMM Commission on Women Advisory Board sponsors campus events, primarily during Women's Week, that promote dialogue on issues relevant to women. The Commission on Women has grant monies available and invites proposals for projects that will further one or more of its goals. Additional information is available on the Web at www.morris.umn.edu/comwomen.

The Women's Resource Center (WRC) is a campus organization for all students who support women's rights and equality. The WRC is also an educational center with books and periodicals available to the public.

Women of Color is a campus organization that promotes understanding of the experiences of women of color while helping to develop the diverse strengths and cultural values of these women. For more information, contact the Office of Student Activities, Student Center 320-589-6080.

Gay, Lesbian, Bisexual, Transgender, and Allied Resources

Two UMM organizations—the Queer Issues Committee and E-Quality—address issues concerning the gay, lesbian, bisexual, and transgender (GLBT) community.

The Queer Issues Committee, a subcommittee of the Student Services Committee, is composed of staff, faculty, and students who identify with or support the GLBT community. This committee coordinates the Safe Zone Program and works to create a supportive campus environment.

E-Quality is a student organization that also identifies with and supports the GLBT community. Through social events, educational programs, and political activism, E-Quality promotes understanding to end stereotyping. A campus resource center contains many publications relevant to GLBT issues, including videotapes, pamphlets, books, current newspapers, and national magazines. The center is staffed by UMM students, faculty, and staff dedicated to creating and maintaining a safe, confidential space for open dialogue and learning about issues of diverse sexuality. The center is open to the public.

Health Service

Health Service is an outpatient health care clinic providing service to UMM students. Health Service is located in Clayton A. Gay Hall.

All students registered for six credits or more may use Health Service through a mandatory student health service fee paid with each semester's tuition and fees. Students have on-campus access to physicians and nursing staff, medical treatment, routine laboratory tests, immunizations, and some prescription drugs. All Health Service records are confidential.

Students should report emergencies and illnesses requiring a physician's care directly to Health Service. The health service fee does not pay for medical or surgical inpatient services at a hospital.

Health insurance is required for students enrolled for six credits or more. For those students not covered by parents' policies or alternate coverage obtained elsewhere, UMM

offers an insurance policy. Health insurance coverage must be verified each semester or students are automatically enrolled in the student health insurance program.

Students With Disabilities

Because UMM is a small, student-centered college, it is a suitable choice for students with disabilities. Students with disabilities receive personal attention and are accommodated on an individualized basis.

UMM's Disability Services office is located in 362 Briggs Library. Along with the Academic Assistance Center, Disability Services provides support for students with physical, mental, and/or cognitive disabilities. Disability Services staff work with students to ensure that they receive appropriate accommodations and learn self-advocacy skills.

Students with disabilities are accommodated through a variety of means such as alternate print formats, alternate testing, note-takers, building orientation, classroom relocation, priority registration, sign language interpreters, and lectures and books in audio format. A strong peer-tutoring program, under the direction of the Academic Assistance Center, offers additional academic support. Disability Services also maintains a computer work station that is equipped with software such as JAWS, Kurzweil 3000, Naturally Speaking, and ZoomText.

The UMM campus is a mixture of old and new structures, and some of the older buildings on campus are only partially accessible. All teaching facilities and the library, student center, administration building, and food service building are accessible and have elevators. Students requiring wheelchair access to inaccessible buildings are served by faculty and staff at alternate locations. There is accessible living space in both conventional residence halls and campus apartments.

Students with disabilities are responsible for providing documentation and requesting accommodation far enough in advance for accommodations to be made. Persons with disabilities seeking assistance or information should contact Disability Services in 362 Briggs Library, 320-589-6178, or freyc@morris.umn.edu.

Students With Children

The Student-Parent Subcommittee of the Commission on Women provides information and support to students who are parents. The group's goal is to support students with children in the challenging task of parenting while succeeding in college. The group makes information and contacts available on its Web site and organizes events that help student parents in this process.

Residential Life

Living on campus at UMM means being part of a very special community. Residence hall living gives students a unique opportunity to meet new friends and interact with a variety of people. Living on campus means being close to classes and facilities and encourages involvement in college activities. All residence hall rooms have direct, high speed UMM computer network access—one connection for each resident. Wireless access is available in residence halls and in many locations across campus. Visit www.morris.umn.edu/wireless.

Variety makes living on campus attractive. UMM has five residence halls, ranging from small, traditional settings to larger, contemporary settings. Apartment living is also available in furnished, two-bedroom units designed for four students. Residential life at UMM includes the following options:

Blakely Hall is one of the original residence halls at UMM. Offering the only fireplace in a campus residence hall and a home-like atmosphere, Blakely Hall accommodates about 70 upper class students. It is coeducational by alternate floors and has open visitation.

Clayton A. Gay Hall accommodates 235 students with 35 students living on each floor. There are two separate lounge areas and kitchenette-utility rooms on every floor. Gay Hall is coeducational by wing, floor, or alternating rooms and has open visitation.

David C. Johnson Independence Hall (DCJI) accommodates 250 students in double rooms, with 20–30 students living in each wing. There are kitchenette-utility areas on each floor. DCJI Hall is coeducational by either alternating rooms or wings and has open visitation.

Pine Hall, known for its unique, private location near the Humanities Fine Arts Center, houses 85 students. A kitchen and game room are located on the ground floor. All floors have an open guest policy and are coeducational by alternating floors.

Spoooner Hall is a traditional-style residence hall. Designed to accommodate 90 upper class students, it features large rooms and a comfortable atmosphere distinguished by the Inner Lounge, which is noted for its charm and warmth. Spoooner Hall is coeducational by alternate floors and has open visitation.

The apartment complex at UMM offers facilities for 284 upper class students. The four-person apartments have wall-to-wall carpeting, two double bedrooms, a kitchen-living room, and a private bath. They provide the privacy of off-campus living arrangements with the convenience of being on campus.

Students living in the residence halls may choose to have single rooms, if space is available, at a slightly higher rate than that for double rooms. The residence halls are served by a central Food Service facility that is within easy walking distance. The apartments have cooking facilities in each unit.

For more information about on-campus housing, contact the Office of Residential Life, University of Minnesota, Morris, MN 56267-2134 or visit the UMM Housing Web site at www.morris.umn.edu/services/reslife.

Student Center

The Student Center opened in 1992 and serves as a community center for UMM students, faculty, staff, alumni, and guests. The Student Center includes three primary gathering places: the Turtle Mountain Cafe, a popular location for lunch, studying, socializing, and meetings; Oyate Hall, a large multipurpose room with a fireplace lounge and panoramic view of the mall; and Edson Auditorium, home to many campus performances and events. In addition, the Student Center provides a campus information center, lounge and study space (including a 24-hour student lounge and computer lab), offices and meeting places for student activities and organizations, international travel services, and recreation areas including a TV lounge, game room, and vending area.

The facility is a center for cocurricular activity on the campus. The activities, events, and functions that take place in the Student Center—club meetings, concerts, conferences, forums, and world-class performances and lectures—enrich student life and are an integral part of the UMM experience.

Student Activities

The Office of Student Activities coordinates and supports UMM's extracurricular social, educational, cultural, and recreational programs. It provides professional assistance to student organizations and is perhaps the single best source of information and technical expertise for individuals or groups of students who would like to get something done, see something happen on campus, or simply become involved. By participating in student organizations, UMM students develop leadership and organizational skills, meet new people, make a difference on campus, and have fun.

Student Organizations

UMM has more than 85 student organizations, clubs, committees, and special interest groups. These organizations provide opportunities for involvement in the academic, social, cultural, religious, and recreational activities of the campus, as well as in local, national, and international issues. At the beginning of each semester, UMM sponsors an Activities Fair that serves as a showcase for the many student organizations. The Activities Fair provides new students with an opportunity to meet students active in a particular organization and learn about the group's activities and events, gain an understanding of each organization's purposes and goals, and join the organizations that match their interests.

UMM student organizations include the Art Club, Asian Student Association, Big Friend/Little Friend, Black Student Union, Campus Activities Council, Concert Choir, Chronicle Alternative, Circle of Nations Indian Association, Dance Ensemble, E-Quality, Fencing Club, International Student Association, Inter-Varsity Christian Fellowship, Jazz Ensembles, KUMM student radio, Meiningens, Minnesota Public Interest Research Group (MPIRG), Morris Campus Student Association, Outdoor Club, Peer Health Educators, Psychology Club, Saddle Club, United Latinos, *The University Register* (the student newspaper), and Women's Resource Center. A complete list is available online at www.morris.umn.edu/webbin/StudentActivities/.

Morris Campus Student Association

The Morris Campus Student Association (MCSA) exists to represent the interests of students on the Morris campus of the University of Minnesota. The central policy-making body of UMM, the Campus Assembly, consists of faculty, staff, and elected student representatives. These students, along with other elected or appointed student representatives, form the student government, the MCSA Forum. The Forum provides most of the recommendations for student membership on campus committees. It is the major source for expressing student opinion and initiating legislative action to promote and protect student interests. First-year students can become involved in the MCSA through the First-Year Committee.

Campus Activities Council

The Campus Activities Council (CAC) is the major activities and events planning organization on the UMM campus. Through funds provided by the Activities Fee, CAC offers a wide variety of cultural, social, recreational, and educational programs. CAC events range from professional music, theatre, and dance performances to an annual lecture series, free weekly films, stand-up comedy, live music, and community-building activities. Each year CAC works to "bring the world to UMM."

Involvement in CAC may range from attending and enjoying a variety of events to becoming an active member of any of the five student committees: Concerts, Performing Arts, Homecoming and Traditions, Films, and Convocations (lectures). Each committee selects, organizes, and promotes events in its program area. Committees also work with other campus organizations to present special events.

Campus Programming

In addition to the activities presented by the Campus Activities Council, a variety of other options for cultural enrichment and entertainment are available. A large number of student organizations and residence hall groups organize events and programs of their own. The UMM bands, choirs, orchestra, and theatre also present outstanding performances.

Several week-long themes are addressed through a variety of program activities on campus each year. Early in the fall, Homecoming activities include a pepfest, a parade, the traditional football game, a homecoming dance, and more. The UMM Women's Resource Center addresses women's issues and recognizes women's accomplishments during Women's Week. Black History Month and Cultural Heritage Week focus campus attention on the issues, accomplishments, culture, history, and art of U.S. people of color.

Fine Arts Programs

The Campus Activities Council (CAC) Performing Arts Series sponsors several performances by artists of national and international stature each year. In addition to the dance, music, and theatre series, CAC co-sponsors with UMM Jazz Ensembles the annual spring Jazz Festival featuring professional guest artists and jazz at its finest.

The UMM studio art and art history faculty arrange regular exhibits in the Humanities Fine Arts (HFA) Gallery during the year. These exhibits include original works of artists from many periods and mediums, as well as displays of paintings, drawings, prints, and sculptures by UMM students and faculty.

University theatre students and faculty produce classical and contemporary plays each semester during the academic year. In addition, the Meiningsens, a student group dedicated to providing theatre experience for its members, offers dramatic productions.

Concerts are scheduled throughout the year by the UMM Symphonic Winds, UMM Orchestra, University Choir, Concert Choir, and Jazz Ensembles. Student and faculty recitals—vocal and instrumental—are scheduled frequently for student and community enjoyment.

Displays of rare books are exhibited in the library. Included are general and specialized exhibits of books ranging from the medieval period to modern times.

Campus Media

KUMM—the U-90 Alternative (89.7 FM) and *The University Register* provide the campus community with campus news, information, student opinions, and entertainment. KUMM broadcasts alternative radio seven days a week, 24 hours a day during the academic year. The

student newspaper, *The University Register*, is published weekly throughout the academic year and is available in campus news boxes or online. KUMM and *The University Register* are student-run organizations staffed by hundreds of dedicated volunteers. *The Counterweight*, a monthly conservative student publication, began publishing on campus in 2004.

Religious Organizations

Religious student organizations offer fellowship, service, and religious activities for UMM students. A number of active groups provide an opportunity to meet together in study, prayer, and fellowship. In addition, the Catholic and Lutheran Campus Ministries provide off-campus fellowship and worship at their respective centers and offer a diversity of events throughout the year.

Sports and Recreation

Recreational activities and organized sports are important features of life at UMM. Since their inception, the intercollegiate and intramural athletic programs have contributed to participants' general education. Opportunities for personal fitness, recreation, and team competition include state of the art fitness facilities in the Regional Fitness Center, intercollegiate and club sports, intramural leagues, wellness and sports science courses, and indoor and outdoor recreation clubs. Through these athletic and recreational experiences, students have the opportunity to improve their level of personal fitness. The staff in wellness and sport science, intramurals and recreation, and the Regional Fitness Center are dedicated to helping each individual participant realize this goal.

Intercollegiate Athletics—UMM is an NCAA Division III member of the Upper Midwest Athletic Conference. The UMM Cougars compete in seven sports for men and nine sports for women. Men's varsity sports include soccer, football, golf, basketball, baseball, tennis, and track and field. Women's varsity sports include soccer, cross country, volleyball, golf, basketball, softball, swimming and diving, tennis, and track and field.

Intramural Sports—Men's, women's and co-ed intramural leagues are offered each semester in a variety of sports including flag football, basketball, volleyball, slow pitch softball, kickball, and hockey. Weekend tournaments and opportunities for individual competition

typically include 3-on-3 basketball, ultimate frisbee, tennis, 4-on-4 basketball, and the annual Tinman Triathlon.

Sports Clubs—A number of sports clubs have been organized as a result of student-faculty interest. Men's volleyball, ultimate Frisbee, fencing, karate, and saddle clubs have many enthusiastic members. Many of the clubs travel to other colleges and host tournaments at UMM.

Regional Fitness Center—The Regional Fitness Center's recreation and fitness facilities serve members of the UMM and area communities. Cardio and strength machines, aerobics courses, court time, and a walking running track offer indoor recreation and fitness opportunities year round. Swimmers and divers spend many hours in the regulation NCAA/AAU pool, diving tank, and warm water pool.

All students and faculty are encouraged to use the Regional Fitness Center and Physical Education Center facilities. UMM students registered for 6 credits or more are members of the Regional Fitness Center through a student fee paid each semester with tuition and fees.

Students in residence halls have access to recreation facilities, including sand volleyball courts, pool tables, and table tennis.

Finally, for outdoor enthusiasts, there are excellent recreational facilities for fishing, hunting, boating, and skiing within a few miles of the Morris campus. An outdoor recreation club is active on campus.

Alumni Association

The UMM Alumni Association offers students opportunities for networking with alumni across the United States and around the world. Alumni often are willing to assist students in locating internships and jobs as well as offer advice about the "real world."

Each term, all UMM students have access to the publication Profile, which is produced by the UMM Office of External Relations in cooperation with the UMM Alumni Association.

Students can visit the Alumni Association at 123 Humanities Fine Arts Building, or on the Web at www.morris.umn.edu/alumni/.

Community Service and Volunteerism

UMM belongs to the National Campus Compact Association, which promotes and supports both community service and service-learning at colleges and universities. Community service activities at UMM include extracurricular service programs, such as the as the Tutoring, Reading, and Enabling Students (TREC) Program in the Morris school system and beyond; individual volunteerism including Big Friend/Little Friend mentor pairs; and numerous short-term group projects.

The goals of these activities are to develop leadership skills, encourage civic participation, and connect UMM students with community members in the area. For more information on community service and volunteer opportunities contact the Office of Student Activities. See also the section on Service Learning in the Academic Information section of this catalog.

Campus Safety and Security

UMM's campus safety and security programs cover the academic buildings, residence halls, student service facilities, and campus grounds. UMM Campus Police emphasize crime prevention by minimizing crime opportunities and encouraging students and employees to be responsible for their own and others' security. Campus safety programs include violence prevention programming, annual training on security measures and emergency/crisis management for residence life staff, regular lighting surveys of exterior campus lighting, and 24-hour access phones in public areas within campus buildings and parking areas.

UMM publishes an annual Campus Safety and Security Report in compliance with federal legislation, now known as the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. This legislation requires all public and private colleges receiving federal financial aid to provide annual information on campus safety services, crime reporting and the university's response, data regarding crimes occurring on campus, and relevant policies and procedures. The report is available online at www.morris.umn.edu/services/police.



Grading Policy

The complete University Senate grading policy can be found on the Web at www1.umn.edu/usenate/usen/policies.html.

- This policy became effective in the fall of 1997 for the Crookston, Morris, and Twin Cities campuses, replacing all previous grading policies. It may not be applied retroactively to any grades or symbols awarded before that time.
- The above campuses have two grading systems, A-B-C-D-F (with pluses and minuses) and S-N. The grading policy does not require any instructor to use pluses and minuses. Courses may be taken A-F or S-N unless otherwise noted. Students may receive grades only from the grading system under which they have registered for a course.
In addition, there are registration symbols that do not carry grade points or credit.
- When both grading systems are available, students must choose one when registering for a course. The choice may not be changed after the end of the second week of classes (the first week in summer terms).
- Instructors must clearly define for a class, at one of its earliest meetings, the performance necessary to earn each grade or symbol.
One conventional credit is defined as equivalent to three hours of learning effort per week, averaged over an appropriate time interval, necessary for an average student taking that course to achieve an average grade in that course.
- No student may receive a bachelor's degree unless at least 75 percent of the degree-qualifying residence credits carry grades of A, B, C, or D (with or without pluses or minuses). Each campus, college, and department may choose not to accept academic work receiving a D (with or without a plus or minus).
Each campus, college, and department determines to what extent and under what conditions each grading system is used, may specify what courses or proportion of courses must be on one system or the other, and may limit a course to either system.
- The University's official transcript, the chronological record of the student's enrollment and academic performance, is released by the University only at the student's request or in accord with state or federal statutes; mailed copies include the University's official seal printed on them. Currently enrolled students may obtain an unofficial transcript of their own academic work at their request, except when they have a transcript hold on their record.
- The University calculates a grade point average (GPA) for each student, both at the end of each grading period and cumulatively. GPA is calculated as the ratio of grade points earned divided by the number of credits earned with grades of A-F (including pluses and minuses). Both the periodic and cumulative GPA appear on each student's record. When the degree is posted, the degree GPA is frozen on the transcript and appears on the official transcript.
- Students may repeat a course once; however, students who received grades of S, C, or higher may repeat a course once only if space permits. Credit will not be awarded twice for the same or an essentially equivalent course. When a student repeats a course 1) both grades for the course appear on the official transcript, 2) the course credits may not be counted more than once toward degree and program requirements, and 3) only the last enrollment for the course counts in the student's GPA.
- All grades for all courses each semester are submitted to the Office of the Registrar no later than 3 business days after the last final examination for that term.
- Students may petition the college scholastic committee or other appropriate body concerning the provisions of this policy. No student, however, may initiate an appeal of the grade earned in a course more than one calendar year after the grade was assigned. Changing a grade to W (withdrawal) is subject to the one-year limitation on appeal set forth in the preceding sentence.
- The following grades (with grade points as indicated) and symbols are used on transcripts.

A	4.00Represents achievement that is outstanding relative to the level necessary to meet course requirements.
A-	3.67	
B+	3.33	
B	3.00Represents achievement that is significantly above the level necessary to meet course requirements.
B-	2.67	
C+	2.33	
C	2.00Represents achievement that meets the course requirements in every respect.
C-	1.67	

- D+.....1.33
- D.....1.00.....Represents achievement that is worthy of credit even though it fails to fully meet the course requirements.
- S.....Represents achievement that is satisfactory. The performance required for an S must be the same as that required for a C-. The S does not carry grade points and is not included in GPA calculations, but the credits count toward the student's degree program if allowed by the department.
- F or N.....Represents failure or no credit and signifies that the work was either: 1) completed but at a level of achievement that is not worthy of credit or 2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an I. The F carries 0.00 grade points and is included in GPA calculations; the N does not carry grade points and is not included in GPA calculations.
- I.....Incomplete, a temporary grade that indicates coursework has not been completed.
 The instructor assigns an I when, due to extraordinary circumstances, the student was prevented from completing coursework on time. An I requires a written agreement between the instructor and student specifying the time and manner in which the student will complete the course requirements during the next year.
 Work to make up an I must be submitted within one year of the last day of final examinations of the term in which the I was given. If not submitted by that time, the I will automatically change to an F (if A-F registration) or N (if S-N registration). If an I changes automatically to an F or N, the instructor has the discretion to reinstate the I for another year.
 The instructor is expected to turn in the new symbol within four weeks of the date work is submitted.
 When an I is changed to another symbol, the I is removed from the record. Once an I has become an F or N, it may be converted to any other symbol by petition of the instructor (or department if the instructor is unavailable).
 If a student graduates with an I on the transcript, the I remains permanently an I. A student may complete the work in the course within a year after graduating and receive a grade. Although the degree GPA is frozen when the degree is posted, the cumulative GPA on the official transcript will reflect the change in GPA.
 Interpretation of Policy on Incompletes for Students Called to Active Military Duty—When appropriate, instructors may make arrangements for a student to take an incomplete. When students are called to active military duty and reach agreement with their instructor(s) to take an incomplete, they have up to one calendar year following their discharge from active duty to complete their incomplete(s).
- K.....Indicates the course is still in progress and a grade cannot be assigned at the present time.
- T.....Transfer, a prefix to the original grade that indicates credits transferred from another institution or from one University college or campus to another.
- V.....Visitor, indicates registration as an auditor or visitor; does not carry credit or grade points.
- W.....Withdrawal, indicates a student has officially withdrawn from a course after prescribed deadlines. If a student withdraws from a course during the first two weeks of classes, that course registration is not recorded on the student's transcript. The W is recorded if the student withdraws from the course during the third through ninth week of class (fourth week of half-term classes; second week of May Session; or third week of summer term). Withdrawal in the tenth or later week of classes (fourth or later in summer terms) requires college approval and may not be granted solely because a student is failing the course. There must be extenuating nonacademic circumstances justifying late withdrawal.
 Each student may once during his or her undergraduate enrollment, withdraw from a course without college approval and receive a W, at any time up to and including the last day of class for that course.
- X.....Indicates a student may continue in a sequence course in which a grade cannot be determined until the full sequence of courses is completed. The instructor submits a grade for each X when the student completes the sequence.

Appeals—Students may initiate an appeal of the grade earned in a course up to one calendar year after the grade was assigned. Changing a grade to a W (withdrawal) is subject to the one-year limitation on appeal.

Academic Dishonesty—Academic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of F or N for the entire course.

Academic Transcript—The transcript is the chronological record of the student's enrollment and academic performance. The University of Minnesota campuses share a student records computing system, which includes course information from all of the University of Minnesota campuses the student has attended during her or his undergraduate program.

Coursework is displayed in a manner consistent with the all-University transcript and grading policies as well as with the unique policies of the college of registration. Transfer work is noted with the name of colleges or universities attended and the total number of credits accepted in transfer by the Morris campus.

Unofficial transcripts are available at no cost to currently registered students. Official transcripts are issued to current students and alumni for all off-campus use. "Official transcripts" are those issued to any second party. A second party is anyone other than the student (or alumnus) requesting the transcript.

In compliance with the federal Family Educational Rights and Privacy Act, transcript requests must contain the student's signature. Transcripts will not be issued without the student's signed authorization. Grades cannot be given to the student by telephone. Transcript requests can be submitted in person; by mail to 212 Behmler Hall, 600 East 4th Street, University of Minnesota, Morris, MN 56267, or by fax to the Registrar's Office at 320-589-6025. Current prices are available by calling the Registrar's Office at 320-589-6030. Regular Service transcripts are the most economical, but students should allow time for processing. Rush Service is available for urgent requests. For Express Delivery, students must provide the express mailer prepaid and completely addressed. Fax service is available if students provide a credit card number and expiration date. Requests by mail should include payment, the student's full name, UMM ID number, dates of enrollment, the complete address to which the transcript should be sent, and the student's signature. Students must have met all financial obligations to the University before official transcripts can be released for any purpose.

Classes, Schedules, and Final Examinations

Mandatory Attendance at First Class Session—Students must attend the first class meeting of every course in which they are registered, unless they obtain approval from the instructor for an intended absence before the first class meeting; without such prior approval, a student may lose his or her place in the class to another student.

If a student wishes to remain in a course from which he or she has been absent the first day without prior approval, the instructor should be contacted as soon as possible. In this circumstance, instructors have the right to deny access to the class if other students have been enrolled and the course is full. Instructors are encouraged, however, to take into account extenuating circumstances (e.g., weather) which may have prevented a student from attending the first class. Absence from the first class that falls during a recognized religious holiday (e.g., Rosh Hashanah) does not require instructor approval, but the instructor must receive prior notification of the absence and the reason; in this instance, the place will be retained.

Students must officially cancel any course for which they have enrolled and subsequently been denied admission.

Class Attendance—In addition to officially sanctioned excuses, an instructor may excuse a student for any reason the instructor deems acceptable. Instructors have the responsibility of informing their classes of attendance policies.

Students should not be penalized for absences due to unavoidable or legitimate circumstances. Such circumstances include, but are not limited to, verified illness; participation in group activities sponsored by the University, including athletic events; serious family emergencies; subpoenas; jury duty; military service; and religious observances. It is the responsibility of the student to notify faculty of such circumstances as far in advance as possible and to obtain an official excuse.

At UMM, official excuses, which faculty are obligated to honor, are available from either the Health Service, in the case of verifiable illness, or the Vice Chancellor for Student Affairs Office, in the case of a personal and family emergency or when the student is performing a function in the interest of the University. In these cases students remain responsible for making up the work that they have missed and

faculty are responsible for making a reasonable effort to assist students in completing work covered during excused absences.

Standard Class Schedule and Class Period—A standard class schedule at the University of Minnesota, Morris consists of 65-minute classes on MWF or 100-minute classes on TTh with an appropriate change period between classes. Classes of lengths other than 65 or 100 minutes are permitted, subject to University Senate policies governing the relationship between contact hours, credits, and student workload.

Examinations during the term (e.g., mid-terms) may be given only during the regular class sessions; they may not be held at times other than the regularly scheduled class period, subject to the following conditions:

- Exceptions may be made by instructors only for the purpose of giving make-up examinations.
- Any examinations outside of regular class time during the term must be approved by the vice chancellor for academic affairs and dean.
- Any examinations to be held outside of regular class time must be listed on the final exam link found on the registration Web site.
- Accommodation must be provided to any student who encounters an academic conflict, such as between an examination scheduled outside of regular class time and the regular class period of another course, or if two exams are scheduled to be held simultaneously outside of regular class time.
- Take-home examinations, by their very nature, are specifically exempted from this policy.

Overlapping Classes—No student is permitted to register for classes that overlap. Classes that have any common meeting time are considered to be overlapping, as are any back-to-back classes that have start and end times closer together than 10 minutes.

Only under extenuating circumstances are petitions for overrides for such conflicts permitted; these petitions require the signatures of all faculty members involved. The decision to approve or disapprove such an override petition is entirely discretionary with each faculty member involved. Approved “time conflict” petitions must be submitted in person to the Registrar’s Office.

Final Examination Policy—The examination week is part of the regular school year and must be taken into account by students in planning for any other activities or work outside of school hours. The final examination schedule is on the registration Web site. Final examinations for summer session are scheduled during the regular meeting time of the course on the last day. Students are expected to know the times for their final examinations and to attend the examinations as scheduled.

Students who have final examinations scheduled at conflicting times, or who have three (or more) examinations in one calendar day, should contact the Office of the Vice Chancellor for Academic Affairs and Dean. Students are expected to make the appropriate rescheduling arrangements with the instructors by the end of the second week of the term so that conflicts are eliminated well in advance of the final examination period. Instructors must agree to give an alternative final examination to these students.

Instructors are not permitted to hold their final examinations ahead of the regularly scheduled time except under unusual circumstances and by approval of the appropriate division chairperson. These regulations, which require faculty to abide by the final examination schedule, are not, however, intended to prohibit faculty from accommodating the special needs of students by offering examinations at other times. If a final is given at another time, faculty should also offer a final at the scheduled time.

According to the Senate Committee on Educational Policy, the final exam is the last exam of the term, whether or not that exam is cumulative. The intent of the rule is to avoid having significant exams during the last week when out-of-class work would also normally be due. Faculty may not schedule an exam in the last week of class in lieu of an exam in the finals week. Thus, while a unit exam during the last week of class plus a cumulative final during final's week is discouraged, it would be acceptable. Additionally, lab practicums may be given during the last week of classes. Term papers, take-home tests, and other out-of-class work that is assigned before the last week of class can be expected to be due the last day of the regular class. The rule also seeks to exclude take-home final exams being handed out and due during the last week, in effect the same thing as having a final exam the last week. Ideally, faculty would accept out-of-class work on the day of the scheduled final exam, if no final exam is scheduled.

It is University Senate policy to prohibit classes, University-sponsored trips, or extracurricular events on study day and during the final examination period. Under certain rare circumstances, exceptions to the prohibition on trips or events are possible from the chancellor, upon recommendation of the Scholastic Committee. To obtain approval the unit must provide written documentation showing the numbers involved and the educational benefit to the participants, and demonstrating that the trip or event cannot be scheduled at another time. An exemption granted pursuant to this policy shall be honored and students who are unable to complete course requirements during final examination period as a result of the exemption shall be provided an alternative and timely means to do so.

Repeating a Course

Credit will not be awarded twice for the same or an essentially equivalent course. Students may repeat a course once. However, students who receive a grade of S, C, or higher may repeat a course only if space permits. When a student repeats a course, 1) both grades for the course shall appear on the official transcript, 2) the course credits may not be counted more than once toward degree and program requirements, and 3) only the last enrollment for the course shall count in the student's GPA. Transfer courses from other University of Minnesota campuses that are the same or essentially equivalent courses may be considered repeat courses for purposes of grade replacements. Introductory courses from within the University system will be reviewed by the Registrar with faculty consultation. Advanced courses must be approved by the faculty in the discipline of the course.

Special Ways to Earn Credit or Demonstrate Proficiency

Examinations for Credit—Credit for acquired knowledge that is comparable to the content of specific University courses may be obtained by special examination. Special examinations for credit may provide official University recognition for a variety of previous educational activity (classes at unaccredited, international, private proprietary, vocational/technical, or armed services schools; certificate learning; foreign study or travel; noncredit-based transfer work; training programs; job experience; independent preparation). The examination

administered by a department may be a typical final examination, an oral test, written papers or projects, or any other combination of work that satisfies the examiners that the student has adequately achieved the values of the course.

Special examinations do not allow credit for high school-level courses or for reading, writing, or speaking a native language at the introductory or intermediate level.

Minimum standards for awarding credits by examination are determined by the academic department giving the examination. No department is required to give examinations for credit.

Credit by special examination falls under the jurisdiction of the Scholastic Committee. Assistance with determining eligibility and completing the *Request for Special Examination* form is available at the Scholastic Committee Office, 320-589-6011. An appropriate faculty member will be contacted to give the examination. Faculty are encouraged but are not required to support the request. The discipline giving the examination determines the material to be covered. Students have the right to review course syllabi or course texts prior to taking the examination. When the request is approved, a special fee is paid, whether or not the student passes the examination.

No fee is charged for examinations for credit taken during the student's first term in residence or the first term after an absence of a year or more. Credits earned by examination do not count as resident credit. The instructor reports the results to the Registrar's Office on the *Request for Special Examination* form.

A student must do "C-" quality work on the examination to earn credit; a notation is then placed on the transcript showing the course and credits earned. The grade will appear on the transcript as "T" designating "test credit" and will not count in the GPA. If the student fails to do "C-" quality work on the examination, no notation is made on the transcript.

Portfolio Evaluation—This method of evaluation involves faculty review of a portfolio in which the student translates prior learning experiences into educational outcomes, and documents those experiences for academic credit. A special fee is required. For more information, contact the Scholastic Committee Office, 320-589-6011.

Placement Examinations—Placement examinations in math, French, German, and Spanish are administered by the Counseling

Office, require no fee, and yield no credit or grade. These examinations may be taken by appointment. Proficiency examinations in other languages are arranged through the Scholastic Committee Office, 320-589-6011.

Nationally Administered Examinations for Credit—The Scholastic Committee, with the concurrence of the appropriate discipline, recognizes and awards credits based on nationally administered examinations which are taken as part of the Advanced Placement (AP) Program, the College Level Examination Program (CLEP), and the International Baccalaureate (IB) Program. Qualifying scores are established by the Scholastic Committee based on all-University policy. The national examinations are reviewed every five years. The Scholastic Committee has approved the use of AP, CLEP, and IB credits in the General Education Requirements; faculty have approved the use of CLEP and AP credits in specific majors.

Advanced Placement Examinations—Entering freshmen may receive credit in more than 30 subjects for qualifying scores of 3 or higher on Advanced Placement examinations. Nonresident credit is awarded when the college processes an official report from the AP Program. Students who have taken AP examinations should submit an official transcript of their scores to the Registrar's Office. Entering freshmen who seek credit or advanced placement through evidence other than the AP scores should contact the Scholastic Committee Office, 320-589-6011.

CLEP—Registered students are awarded credit for obtaining satisfactory scores on the nationally standardized CLEP general examinations. These credits may be counted toward the 60-credit liberal arts requirement and the 120 credits required for graduation. CLEP credits do not satisfy the residency requirement. Four of the CLEP general examinations may be taken for credit: Humanities, Mathematics, Natural Science, and Social Science. To earn credit, a student must attain national qualifying scores.

The CLEP general examinations are available to freshmen during freshman orientation week and by arrangement. Students may sign up for examinations by contacting Student Counseling. A fee is charged.

Students may also earn credit by successfully passing the CLEP subject examinations, which measure achievement in specific college courses. There are more than 30 CLEP subject

examinations covering the content of a variety of courses ranging from Spanish to psychology. UMM allows credit for most. A special fee is charged. To earn credit a student must attain the national qualifying score, based on a norm group of college students who have already passed the course for which the examination is intended. A chart of subject examinations and qualifying scores can be found at www.morris.umn.edu/Scholastic/.

If a student has earned or is registered for college credits in the area of the examination before taking it, he or she receives only the difference between these credits and the credit maximum permitted. If a student has previously earned and/or is registered for more credits than the area of the examination awards, no credit is given for successful completion of the test. However, a student is permitted to receive credit for courses taken after successful completion of a CLEP examination in a particular subject area.

Students who have taken CLEP examinations elsewhere should submit an official transcript of their scores to the Registrar's Office, to be processed for appropriate credit allocation. Students are notified of scores received and credit granted.

International Baccalaureate—Students who complete an international baccalaureate (IB) diploma with a score of 30 or higher and have no examination scores lower than 4 are awarded 8 credits for each of three higher-level examinations, plus 2 credits for each of three subsidiary exams, for a total of 30 credits. No credit is given for subsidiary-level exams other than those included as part of the IB diploma, but students may receive credit for any higher-level exams with a score of 5 or higher. The Scholastic Committee has approved use of IB credits to meet specific general education requirements. Use of IB credits in the major is determined through discussions between students and faculty in each major. To receive credit, students who have completed IB examinations should provide an official record of their scores to the Registrar's Office.

Military Service School Experience—UMM does not grant college credit for military service. The Scholastic Committee does, however, grant credit for military service school experience when formal training courses have substantial content and have counterparts in the normal liberal arts curriculum. In evaluating such training, the Scholastic Committee uses the *Guide to the Evaluation of Educational*

Experiences in the Armed Forces published by the Commission on Accreditation of Service Experiences of the American Council on Education. To obtain credit, a student must verify the service school attendance as well as successful completion of the work for which credit is requested. For more information, contact the Scholastic Committee Office, 320-589-6011.

Organizational Sponsored Instruction—The University of Minnesota, Morris may grant credit for formal educational programs and courses sponsored by noncollegiate organizations if they have substantial content and have counterparts in the normal liberal arts curriculum. In evaluating such training, the Scholastic Committee uses the Guide to Educational Programs in Non-Collegiate Organizations of the American Council on Education and similar guidelines published by other national agencies. To obtain credit, a student must verify successful completion of the work for which credit is requested. For more information, contact the Scholastic Committee Office, 320-589-6011.

Academic Progress Requirements

The UMM Campus Assembly has established minimum academic progress requirements based on two measures: the cumulative GPA measures performance over time; the term GPA measures performance within the term. The authority for administering the requirements and taking necessary action rests with the Scholastic Committee. (The Financial Aid Office monitors separate financial aid Satisfactory Academic Progress [SAP] requirements. See www.morris.umn.edu/admissions/financialaid/SAP.html.)

All degree-seeking students who attempt more than 5 credits must maintain both a 2.00 cumulative GPA and a 2.00 term GPA to be in good standing. At the end of each term, students whose term or cumulative GPA falls below 2.00 are placed on probation; students who are on probation for two consecutive semesters and whose cumulative GPA falls below 2.00 will be suspended for one full academic year (two regular semesters). Post Secondary Enrollment Option (PSEO) students and non-degree candidates are exempted.

Probation and Suspension

Students are placed on academic probation if either the term GPA or the cumulative GPA falls below 2.00. Students on probation remain eligible for financial aid. Students whose term GPA is less than 2.00 for two consecutive terms *and* whose cumulative GPA falls below 2.00 are suspended. Suspended students are not eligible to receive financial aid.

Probation

Students are placed on academic probation if either the term GPA or the cumulative GPA falls below 2.00. A hold is placed on the student's record and letters outlining information about resources for improvement are sent from the Scholastic Committee. Advisers receive copies of probation letters. Students on probation will be allowed to register for a maximum of 14 credits and must meet with their adviser to discuss appropriate courses; following that meeting the adviser will contact the Registrar's Office to release the probation hold. The adviser may approve registering for more than 14 credits; the approved maximum credits must be stated in the hold release. Students on probation return to good standing by earning a term GPA and cumulative GPA of 2.00.

Suspension

Students whose term GPA is less than 2.00 for their last two consecutive semesters *and* whose cumulative GPA falls below 2.00 will be suspended. Suspended students are not eligible for financial aid.

1. Students who do not meet academic progress requirements may be suspended following fall or spring semester. The suspension is in effect for one full academic year (two regular semesters). May session and summer session are excluded from determining academic progress.
2. Suspension is for one full academic year. However, students may appeal to return after an absence of only one regular academic semester. All appeals will be heard following spring semester. Students suspended after the fall term may appeal to return the following fall semester; students suspended after spring term may appeal to return the following spring semester.
3. Suspended students who do not appeal or whose appeals are denied may apply for readmission one full academic year (two regular semesters) after suspension. They must present an academic plan for improvement; evidence of successful

completion of evening, summer, or transfer courses; and/or evidence that personal difficulties are being addressed.

Appeal of Suspension

Suspended students may appeal to the Scholastic Committee. The online appeal form must be completed; procedures are included in the suspension notification letter. If the appeal is approved, the Committee determines the conditions that must be met during the semester they return. If those conditions are not met, the original suspension is reinstated at the end of the term.

Probation Following Approved Appeal

Students with an approved appeal remain on probation. The Scholastic Committee prescribes special academic requirements in an effort to improve the student's chance for success. Students and their advisers are notified of these conditions. For example, students may be required to complete a specified number of credits and to earn a prescribed GPA during the single semester of their approved return.

Student Alert Systems

UMM's Academic Alert/At Risk Student Intervention Team, working in collaboration with the Scholastic Committee, provides broad-based support for student success at UMM. The team coordinates intervention strategies and support for students who are at risk academically, working with faculty and staff from a variety of UMM programs. UMM has the use of two student alert systems: midterm alert and academic alert. Alerts are used if instructors are concerned about a student's academic performance or personal situation. Advisers are informed of the alerts and work with students to determine strategies for success at UMM. The alert systems provide a way for the campus to coordinate its efforts to provide the best help and advice possible to students. There are two alert systems:

Midterm Alert This is an all-University alert that is available during weeks 6–8 of the semester. Alerts are automatically sent to both the adviser and the student. Only one midterm alert can be sent for each student in each class.

Academic Alert This is a UMM alert that is available all semester, including finals week. It can be used more than once for each student in each class. Instructors can send an alert using the Web submission form at www.morris.umn.edu/Scholastic/AcademicAlert/. The adviser

and the student receive an e-mail from the Academic Alert Committee. Students may access general information about early alerts at www.morris.umn.edu/services/dsoaac/aac/AcademicAlert/.

Exemption From Regulations

Students having difficulty meeting academic regulations should contact the Scholastic Committee Office, 320-589-6011. The Committee acts on exceptions to requirements in the General Education Requirements (GER) and to policies governing grading, cancel/add, and credit limits. For exceptions in the major, students should consult discipline faculty.

Grievance Procedures

Students with complaints about an instructor or criticisms about course content, procedures, or grading should, in almost all instances, bring the matter directly to the instructor. Where this is clearly inappropriate or when such action does not bring about a mutually satisfactory solution, the student should take the problem to the chairperson of the division administratively responsible for the course (see the section on Division Structure located elsewhere in this catalog). The chairperson will attempt to resolve the matter informally. Grievances involving an instructor's judgment in assigning a grade based on academic performance may be resolved only through this informal resolution procedure. Decisions of the division chairperson can be appealed to the vice chancellor for academic affairs and dean. In other instances, if a resolution is not achieved, a UMM Grievance Committee is appointed. Appeals of the UMM Grievance Committee's decisions may be referred to the all-University Grievance Committee in accordance with the Regents Policy on Student Academic Grievance, available from the UMM Office of the Vice Chancellor for Academic Affairs and Dean.

Equal Opportunity and Discrimination Overview

Equal opportunity means that every person has an equal chance to participate and succeed in employment or academic activities without discrimination based on membership in a protected class. Under state and federal law and University of Minnesota policy, individuals and groups are designated as protected class members by race, color, creed, religion, national

origin, sex, age, marital status, disability, public assistance status, veteran status, and sexual orientation. The law, and basic fairness, demands that decisions about our employment and academic success should be made on the basis of merit.

Discrimination involves intended or unintended denial of recognition, power, privilege, and opportunity to certain people based on the groups to which they belong. Harassment on the basis of a person's protected classification is a violation if the conduct creates an intimidating, hostile, or offensive work or educational environment, or interferes with an individual's work or educational performance. Slurs or jokes and verbal or physical conduct motivated by an individual's protected class are unacceptable in the University educational and work community.

Any person seeking assistance in either resolving or making a complaint of any of the forms of discrimination, including harassment, should contact the Office of Human Resources at 320-589-6021 or the all-University Office of Equal Opportunity and Affirmative Action (EE/OA) at 612-624-9547. Students may also seek confidential assistance from Student Counseling at 320-589-6060. Staff may seek confidential assistance from the Employment Assistance Program, SCMC Life Center at 320-589-1313.

Discrimination: Age

The Age Discrimination in Employment Act (ADEA) prohibits age discrimination against older workers (persons 40 or older) in all aspects of employment. The Minnesota Human Rights Act more broadly protects all people over the age of 18 years from age discrimination as students and employees.

It is unlawful to discriminate against an employee or applicant on the basis of age with respect to any term or condition of employment including but not limited to hiring, firing, promotion, layoff, compensation, benefits, job assignments, and training.

Discrimination: Disabilities

The Americans with Disabilities Act and other related laws prohibit employers, units of government, and labor unions from discriminating against qualified individuals with disabilities as employees, students, and users of public accommodations and services.

An individual with a disability is a person who has a qualifying physical or mental impairment that substantially limits one or more major

life activities (walking, eating, breathing, sleeping, etc.), or is regarded as having such impairment. The person must be qualified to perform the essential functions of the job or the academic program with or without reasonable accommodation. Employment and academic standards are not lowered.

Discrimination: Gender

Making decisions on the basis of someone's gender, or sex, is illegal under state and federal law. In employment, this includes decisions related to hiring, wages, terminations, promotions, leaves, and benefits. In education, this includes decisions related to admissions and grading. Both men and women are protected from discrimination.

Discrimination: Race, Color, and National Origin

Race discrimination is defined as unfair treatment of an individual based on characteristics traditionally associated with race, such as skin color, hair texture, and facial features. It also includes making decisions or taking adverse actions against an employee or student because of preconceived negative assumptions, biases, or judgments concerning race or color.

As an international institution, the University is enhanced by its many students and employees who reflect a wide variety of national origins. No individual can be denied equal opportunity because of birthplace, ancestry, or cultural or linguistic characteristics common to a specific ethnic group or national origin.

Discrimination: Religion and Creed

The University may not discriminate in any aspect of the work or educational environment on the basis of religion or creed. Religion and creed can have the same or equivalent meaning. They include all religious and spiritual observances, practices, and sincerely held beliefs.

As a public entity, the University cannot be in a position of supporting, or appearing to support, one religion or spiritual practice. Today's world finds an increasing number of religions in our society. The University has long supported adjustments of work and exam schedules for staff and students when necessary to permit sincere religious practices.

The policy on Student/Employee Absences for Religious Holidays and the Calendar of Religious and Spiritual Festivals and

Observances are available by links to the Office of Human Resources and the Religious and Spiritual Resource Directory on the EOAA Web page at www.EOAAffAct.umn.edu.

Discrimination: Sexual Harassment

It is the University's goal to maintain a work environment free from sexual harassment. The regents policy on sexual harassment applies to all members of the University community. Sexual harassment is defined as "unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature when: 1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic advancement in any University activity or program; 2) submission to or rejection of such conduct by an individual is used as the basis of employment or academic decisions affecting this individual in any University activity or program; or 3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program."

Sexual Harassment Policy adopted by the Board of Regents December 11, 1998, Section I, subd. 1.

Sexual harassment can occur between members of the same sex, and the victim as well as the harasser may be a woman or a man. If harassment is believed to be occurring, whenever possible the victim should directly inform the harasser that the conduct is unwelcome and must stop. The victim's supervisor, administrator, or faculty member can also be informed to help prevent future incidents and to prevent retaliation. These people must take timely and appropriate action when they know or have reason to know that behavior that might be sexual harassment is occurring.

Discrimination: Sexual Orientation

University of Minnesota policy, as well as state law, prohibits discrimination on the basis of sexual orientation. At the University of Minnesota, this includes gay, lesbian, bisexual, and transgender people. The Minnesota Human Rights Acts defines sexual orientation as: "having or being perceived as having an emotional, physical, or sexual attachment to another person without regard to the sex of that person, or having or being perceived as having an orientation for such an attachment, or having

or being perceived as having a self-image or identity not traditionally associated with one's biological maleness or femaleness.”

Minnesota Human Rights Acts, Section 363.01, Subd. 45.

In compliance with University policy on equal access to its programs, facilities, and employment, University policy also provides benefits to spouses and registered domestic partners of University employees and students.

Additional Information

More information about Equal Opportunity may be found in the booklet, Equal Opportunity and Affirmative Action at the University of Minnesota. A copy may be requested from the Twin Cities Office of EO/AA at 612-624-9547 or the UMM Office of Human Resources at 320-589-6024. It is also available online at www.EOAffAct.umn.edu.

Reporting Bias Incidents or Hate Crimes

Members of the University of Minnesota community have the right not to be discriminated against by any agent or organization of the University for reasons of actual or perceived race, color, creed, religion, national origin, gender, identification, age, marital status, disability, public assistance status, veteran status, and/or sexual orientation. The University of Minnesota, Morris does not tolerate such incidents and will seek resolution of such matters.

Any student, acquaintance of a student, or group within the University community who has experienced bias, discrimination, or hostility, should report it by completing the *University Bias/Discrimination/Harassment Reporting* form at <http://134.84.237.31/biasreportingform.html>.

What is a Bias Incident or Hate Crime?

Bias Incident or Hate Crime: Expressions of disrespectful bias, hate, harassment, or hostility against an individual, group, or their property because of the individual or group's actual or perceived race, color, creed, religion, national origin, gender, identification, age, marital status, disability, public assistance status, veteran status, and/or sexual orientation can be forms of discrimination. Expressions vary and can be in the form of language, words, signs, symbols, threats, or actions that could potentially cause alarm, anger, fear, or resentment in others, or that endanger the health, safety, and welfare

of a member or members of the University community, even when presented as a joke.

Hate Crime Minnesota does not have a “hate crimes law.” Instead, the Legislature has identified particular crimes that, if perpetrated because of the victim's actual or perceived race, color, religion, sex, sexual orientation, disability, age, or national origin, trigger heightened penalties. Included crimes are criminal damage to property, assault, and harassment/stalking.

Bias Incidents not under the jurisdiction of the University of Minnesota Bias incidents impacting students, faculty, and staff but occurring beyond the campus should be reported through this process. The Response Team will coordinate with appropriate community agencies.

Conduct and Free Speech The conduct underlying some bias incidents might be protected speech, but may still violate the University of Minnesota's commitment to civility and diversity. Constitutional rights will continue to be protected and University community members will also exercise the right to speak, engage in educational dialogue, and seek a constructive response rooted in the University's mission and vision.

For More Information

For more information and resources, see the UMM site for reporting and responding to bias incidents and hate crimes at www.morris.umn.edu/services/hr/Bias%20Incidents.htm.

Academic Integrity and Student Disciplinary Action Procedures for UMM

The Board of Regents has adopted a University-wide Student Conduct Code that specifically prohibits scholastic dishonesty; disruptive classroom conduct; falsification; refusal to identify and comply; attempts to injure or defraud; threatening, harassing, or assaultive conduct; disorderly conduct; illegal or unauthorized possession or use of weapons; illegal or unauthorized possession or use of drugs or alcohol; unauthorized use of University facilities and services; theft, property damage, and vandalism; unauthorized access; disruptive behavior; hazing; rioting; violation of University rules; and violation of federal or state law. The Student Conduct Code is available through the University Policy Library

at www.umn.edu/regents/policies/academic/Student_Conduct_Code.pdf.

The Policy on Academic Integrity and the Student Conduct Code brochure further explain prohibitions regarding scholastic dishonesty and sexual harassment. Copies of these documents may be obtained from the Office of the Vice Chancellor for Student Affairs.

The UMM Campus Assembly has enacted policies and procedures to maintain a climate of academic integrity and responsible behavior on the Morris campus. These policies and procedures are governed by a Committee on Academic Integrity and a Student Behavior Committee.

The major objective of the disciplinary system at the University of Minnesota, Morris is to maintain standards of conduct and order commensurate with the educational goals of the institution. These procedures help students understand and accept the consequences of their behavior in relation to themselves and others. The procedures are designed to guarantee the rights of the accused and to protect the welfare of all members of the University community.

To provide a system of student discipline capable of operating fairly and expeditiously under a variety of circumstances, a number of functional agents and agencies are authorized.

Formal Disciplinary Action

On the Morris campus, formal disciplinary action is the responsibility of a faculty-student-staff committee of the Campus Assembly. The constitution of the University of Minnesota, Morris makes explicit the role of the Student Services Committee in development of policy, consistent with the Board of Regents rulings, concerning student conduct on the Morris campus. To meet these responsibilities, each year the chair of the Student Services Committee appoints a Student Behavior Committee consisting of three students and three faculty. One of the three faculty serves as a voting chair. A non-voting secretary is appointed by the Chancellor.

Administrative Disciplinary Action

It is desirable that some instances of student misconduct be settled directly within the appropriate administrative unit. These persons and agencies investigate allegations of misconduct and work with the concerned parties to reach an administrative resolution of the dispute whenever possible. If at any time the accused party wishes to institute a formal

hearing process, these persons and agencies assist with the implementation of a formal hearing process. Where disciplinary action taken by administrative units is involved, the accused to the dispute can, for cause, appeal decisions to the Student Behavior Committee.

Academic Integrity

The Committee on Academic Integrity is a subcommittee of the Scholastic Committee and is made up of two students, two faculty members, and the secretary of the Scholastic Committee. It is charged with the responsibility of educating students regarding the need for standards of academic honesty, advising faculty and students on questions of procedure in the event of a suspected violation of these standards, and determining the guilt or innocence of students involved in cases of alleged academic dishonesty brought before the committee.

The college prefers that questions of academic dishonesty be settled directly by the instructor and student(s) involved. Procedures specify that if the standards of academic integrity have been violated, the instructor should meet with the student(s) involved and, after informing the student(s) of the allegation and supporting evidence, attempt to reach an agreement regarding the veracity of the charges and whether a penalty will be levied. If a decision is reached, the instructor prepares and submits a written report to the vice chancellor for student affairs, presenting the details of the incident, evidence, and penalties imposed. A copy of the report is provided to the student(s) in question; students have the right to file their own versions of the incident with the vice chancellor for student affairs, should they desire to do so. These reports are maintained in a confidential University file. If an agreement between the student(s) and the instructor cannot be reached, the matter may be referred by either of the parties to the Committee on Academic Integrity for resolution.

Advice or consultation regarding any matter of academic integrity or student conduct may be obtained from the chairperson of the appropriate committee or the vice chancellor for student affairs. Detailed statements of policies and procedures regarding academic integrity and student disciplinary action are available from the Office of the Vice Chancellor for Student Affairs and at www.morris.umn.edu/Scholastic/.



UMM is committed to providing as many learning opportunities for students as possible. The faculty are dedicated not only to teaching, but to research, writing, creative work, and involvement in state, regional, national, and international professional organizations. Many encourage students to work with them on research projects, and a number of UMM students have co-authored scholarly articles or papers.

UMM offers 30 majors as well as areas of concentration (self-designed majors), interdisciplinary, and preprofessional programs. Programs and courses in education, the humanities and fine arts, the social sciences, and science and mathematics provide an excellent background for any major. Students can complement their coursework through the Honors Program, study abroad, internships, field trips, and directed studies. In addition, many lectures, concerts, films, and special programs are offered on campus to enhance the educational experience.

Helping students make the most of their education is UMM's primary goal. UMM's programs challenge students to think critically, make decisions wisely, develop their creativity, and increase their awareness of the world around them.

Program Planning

Students are responsible for planning programs that will satisfy their own educational and professional goals. Academic advisers, faculty, Career Center, Student Counseling, and Academic Advising staff are available to assist with program planning, and students should seek this assistance to assure well-organized and balanced programs of study as well as to avoid planning errors. In preparing their programs, students should use both the print and online versions of this catalog in conjunction with the online class planning materials available on the Academic Advising Web site and in the *UMM Class Schedule*. This catalog was published in March 2007. Links to the most current information about major requirements and courses can be found in the online catalog at www.catalogs.umn.edu/morris/index.html.

Academic Progress Audit System (APAS)

APAS—the Academic Progress Audit System—is a computerized report that provides helpful information about degree and course requirements. It helps determine how each student's courses satisfy those requirements, shows progress toward completion of the program requirements, and serves as a graduation check. Useful to both students and advisers, the report indicates how each student's coursework applies to general education and degree requirements for a specific major. Students can also view how their courses may be used in other majors by using the “what if” option.

Students may view or print their APAS reports online at any time at www.morris.umn.edu/services/registrar/apas.html. Advisers may obtain APAS reports for their advisees on the “My Active Advisees” Web site.

Advising

Academic advising by faculty is considered an integral part of UMM's central mission. Connections between students and faculty outside the classroom contribute to a successful educational experience.

Faculty Advisers—Academic Advising, 223 Community Services, is responsible for coordinating the advising program. Adviser assignments are based on students' particular needs and academic interests. Faculty advisers help with academic planning, encouraging students to pursue their interests within the liberal arts. First- and second-year students are required to discuss their course selections with their advisers each semester. Students must prepare an academic plan: freshmen for their sophomore year and sophomores for their final two years. Advisers can help students enhance their college experience by eliciting academic goals, talking through ways to meet requirements, and considering the effects of their choices on preparing for a career or graduate school. Students also work with advisers to plan academic enhancement opportunities such as study abroad, internships, and research projects.

Changing Advisers—Advisers have expertise in the general education program as well as in the discipline of the major and can provide important information about career preparation or further study. Students are encouraged

to change advisers as their interests change. Contact Academic Advising any time to arrange to have a different adviser assigned.

Undecided Majors—It is not uncommon for students to begin college undecided about their major, or to change majors after they begin. Assistance to students who are deciding on a major is available through individual appointments, the Advising Office’s internet-based program, Career Center resources, and interest inventories available through Student Counseling. Students are encouraged to work with their advisers to consider options and how they relate to careers.

Career Planning—Professional counselors help students consider their options for majors and how they relate to careers through workshops, individual counseling, and the use of interest and vocational inventories. Student Counseling, 235 Behmler Hall, is also the Test Center for graduate school admission examinations, CLEP exams for college credit, and math and foreign language placement exams. Students should also consult with the Career Center staff as they progress toward graduation.

Academic Assistance Center

The services provided by UMM’s Academic Assistance Center (AAC) help students achieve their academic goals, whatever they might be. AAC programs are available free of charge to all students at UMM.

The AAC cooperates with various disciplines to provide peer tutors for most courses offered at UMM. The AAC also offers drop-in hours for tutoring in mathematics, runs a Study Table on Monday evenings to help with study skills, and staffs the Learning to Learn course, which teaches academic strategies. Students can receive counseling on specific topics, such as time management and reading efficiency. Students who are not native English speakers also can receive assistance and support at the AAC.

The AAC also provides services for students with disabilities (see Students With Disabilities under the Student Services and Opportunities section).

The AAC is located in Room 360 of the Briggs Library. Call 320-589-6178 or visit the AAC Web site at www.morris.umn.edu/services/dsoaac/aac.

Academic Enrichment

UMM believes in providing a variety of opportunities for students to participate in academic endeavors. They will find many ways to become involved in nontraditional learning experiences and to use the professional tools of their field.

For example, UMM students might spend a semester as an intern at the state capitol, become an assistant for UMM’s Gateway Program, travel to Ecuador on an anthropology field trip, help to organize a model United Nations program, or use primary research materials to recreate historical events for a paper filed in the archives of the West Central Minnesota Historical Research Center. They might do an internship in social service organizations ranging from welfare agencies to group homes, or they might have their poetry published on UMM’s Prairie Gate Press or their artwork exhibited. They might work with a faculty member on atmospheric or energy research or a study of birds of prey.

There are opportunities to write computer programs, learn important skills as a teaching assistant, and take field trips, exploring a broad variety of habitats ranging from the coastal areas of Florida and Texas to the desert areas of Arizona, New Mexico, and Oklahoma to various areas within Minnesota and the surrounding region.

There are also opportunities to become involved in the kinds of research that at many schools are reserved for graduate students only. Students may have a chance to collaborate with faculty members, and they may, as a number of students have done, publish scholarly work with the faculty.

Undergraduate Research Opportunities Program (UROP)

The Undergraduate Research Opportunities Program (UROP) is a competitive, merit-based program throughout the University of Minnesota that offers financial awards to undergraduates for research, scholarly, or creative projects undertaken in partnership with a faculty member. UROP awards include stipends (up to \$1,000) and expense allowances (up to \$300). All full-time undergraduates at UMM are eligible to apply. All UMM faculty may serve as UROP sponsors. Further information about UROP awards may be obtained from the UROP Office, 225 Community Services.

Multi-Ethnic Mentorship Program

The Multi-Ethnic Mentorship Program was developed to increase the retention and graduation rates of students of color at UMM. Students with second-year standing (30 to 60 semester credits) are matched with faculty/staff who have similar academic and career interests. Participants enjoy a yearlong working relationship with their mentors and have an educationally meaningful experience. A yearly stipend of \$1,000 (paid in two installments at the end of each semester) is awarded to selected students for work supervised by their mentors. Further information about the Multi-Ethnic Mentorship Program may be obtained from the Multi-Ethnic Student Program Office, 110 Multi-Ethnic Resource Center.

Morris Academic Partners (MAP)

UMM has established a program for advanced students called Morris Academic Partners (MAP). Receiving a stipend of \$2,000 for the year, Morris Academic Partners undertake assignments that enhance their intellectual competence and increase their interest in graduate or professional study. Projects involve assisting faculty and professional staff in their research and/or teaching and are more complex than typical work-study assignments. Students entering their third year of study are nominated by faculty for a Morris Academic Partnership and are named by the appropriate division chairperson with the concurrence of the dean. Further information about the MAP program may be obtained from the Office of the Vice Chancellor for Academic Affairs and Dean, 315 Behmler Hall, or online at www.morris.umn.edu/services/acad_affairs/mapguide.html.

Morris Student Administrative Fellows

The Morris Student Administrative Fellows program pays a stipend directly to the student's financial aid account. The program is designed to enable academically talented, qualified students to assist administrative or faculty offices with administrative and managerial projects. Students undertake assignments intended to enhance their intellectual competence and increase their interest in graduate or professional study. Further information about the Morris Student Administrative Fellows program may be obtained from the Office of the Vice Chancellor for Academic Affairs and Dean, 315 Behmler Hall, or online at www.morris.umn.edu/services/acad_affairs/MSAFP_Guidelines.html.

Service Learning

Service learning supplements the classroom experience by using community service, community-based research, and other civic engagement activities to meet course goals and community needs. The service learning program seeks to develop the following skills for students: the ability to connect course material to real world needs; leadership and communication skills; awareness of diversity; improved critical thinking skills; and civic engagement and commitment to social change. Each year, 10 to 20 courses are available in multiple disciplines, focusing mainly on four community needs areas: arts and culture opportunities, elder partnerships, youth development, and sustainable regional foods. Students can take multiple courses to gain a broad range of real world experience. For more information, contact the service learning coordinator at the Faculty Center for Learning and Teaching or visit www.morris.umn.edu/academic/sl.

Study Abroad

UMM is committed to preparing students to become global citizens and to deepening their understanding of world issues. Because firsthand knowledge of other societies and cultures builds international awareness, UMM encourages students to study abroad as part of their academic program.

The Center for International Programs (CIP), together with the student-run Study Abroad Advising Service (SAAS), provides overseas study, work, and travel information for students. In addition to consulting with CIP and SAAS staff advisers and reviewing guides on foreign study and travel, students are encouraged to meet with the study abroad faculty adviser in their major to discuss study abroad options relevant to specific disciplines.

As a part of the University system, UMM students have access to an especially broad range of programs all over the world. These programs are offered by UMM, other campuses of the University, and other colleges and universities nationwide. Most UMM federal and state financial aid is available for study abroad and there are scholarships offered by the University and nationally specifically targeted for study abroad.

The CIP Office is located in 231 Community Services Building; the SAAS Office is in 17 Student Center. E-mail the CIP Office at cip@morris.umn.edu for more information.

National Student Exchange

UMM is a member of the National Student Exchange (NSE). NSE is an undergraduate exchange program within the United States and Canada. With more than 175 colleges and universities participating in NSE, students have a wide variety of courses, programs, facilities, and environments to meet diverse academic and personal needs and interests. Students may participate in an exchange with another NSE college or university for a semester or a year.

For information about NSE participating institutions, application materials, costs, and eligibility, contact the NSE office, 231 Community Services, or e-mail the NSE campus coordinator at NSE@morris.umn.edu.

National Scholarships

UMM encourages eligible students to apply for prestigious national scholarships, including the Rhodes, Fulbright, Truman, Marshall, Mellon, National Security Educational Program (NSEP), Gates-Cambridge, Jack Kent Cook, Udall, and others. These academic scholarships, covering a wide range of fields, bestow considerable national prestige and are helpful in the pursuit of graduate and/or professional study as well as career development. They also typically carry a generous stipend or scholarship. Public information sessions are periodically held on campus for students to learn more about these scholarships, including eligibility requirements and application procedures. A team of faculty and staff advisers mentor students in the complex and highly competitive application process.

For information on national scholarships, contact the Center for International Programs, 231 Community Services Building, at 320-589-6464 or cip@morris.umn.edu.

Directed Study and Internships

The term “directed study” refers to those on- or off-campus learning experiences individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. Directed study courses (with 1993, 2993, 3993, or 4993 course numbers) should be arranged before the term begins, but may be added to the registration later in the term. Note, however, that the financial aid deadline for awarding aid based upon enrolled credits applies to all courses including directed studies and internships. An “internship” is a supervised opportunity to apply academic learning at a

field site. It is arranged between a student, an on-site supervisor, and a University faculty member. For more information about finding an internship, contact the Career Center at 320-589-6065. Directed study and internship offerings include the following courses:

Discipline Directed Study—1993, 2993, 3993, 4993 (1–5 cr per semester)

Interdisciplinary Directed Study—IS 1993, 2993, 3993, 4993 (1–5 cr per semester)

Interdisciplinary Internship—IS 3996 (1–16 cr per semester)

Prior Learning Directed Study—IS 3893 (1–4 cr per semester)

Prior Learning Internship—IS 3896 (1–16 cr per semester)

A special *Directed Study Approval* form or *Internship Approval* form and *Learning Contract* are required for registration. These forms, available at the division offices or online, essentially establish a contract between the student and the supervising faculty member. The contract includes a statement of the objectives of the project, the methods to be employed, and the procedures for evaluating the project.

In addition to faculty evaluation, student evaluation of the project is mandatory. When the work of the project is completed, the faculty member will provide the student with an evaluation questionnaire, which is part of the approval form. The student completes the questionnaire and delivers it to the Office of the Vice Chancellor for Academic Affairs and Dean. The faculty member will not submit a grade until the student’s evaluation of the project has been completed.

Credits

Each credit represents an average of three hours a week of a student’s time and effort, with one hour in class, two hours of preparation, or three hours of laboratory work, for example.

A student with fewer than 30 completed credits is classified as a freshman; 30 to 59 completed credits, a sophomore; 60 to 89 completed credits, a junior; 90 completed credits or more, a senior.

At least 120 credits are required for graduation. Programs must include specified general education requirements and a major or area of concentration (see the following section).

Academic Information

The number of courses required for graduation varies because courses are assigned varying amounts of credit.

The college year is divided into two semesters of approximately 15 weeks each. Except in special cases, full-time students carry 12 to 16 credits each semester; an average course load is 16 credits, usually three or four courses, per semester.

Majors Offered

The University of Minnesota, Morris offers the following majors:

Anthropology	Management
Art History	Mathematics
Art, Studio	Music
Biology	Philosophy
Chemistry	Physics
Computer Science	Political Science
Economics	Psychology
Elementary Education	Social Science
English	Sociology
European Studies	Spanish
French	Speech Communication
Geology	Statistics
German	Theatre Arts
History	Women's Studies
Latin American Area Studies	
Liberal Arts for the Human Services	

Teacher education options are addressed in the next section. In addition, students may choose to complete an area of concentration. This is an individualized, often interdisciplinary, group of courses that meets the requirements for a major. Prototypes for areas of concentration already given provisional approval by the dean—including actuarial science, American Indian studies, American studies, animal behavior, art therapy, biochemistry with forensics science, biology with forensics science, biostatistics, chemistry with forensics science, criminal justice (see LAHS major on page 134), digital media studies, environmental studies, international studies, journalism, peace studies, and sports management—can be found online at www.morris.umn.edu/academic/areas. Students must fill out the appropriate forms and request final approval. Area of concentration forms are available online at www.morris.umn.edu/services/acad_affairs/aavarious.html#areaconcentration.

Specific requirements for UMM majors are listed in the Division Structure and Course Descriptions section in this catalog. Completion of a given major, however, usually involves fulfillment of more than the minimum

requirements. Once a student has selected a major, she or he should seek the counsel of a faculty member in the discipline to plan a well-organized and balanced program.

Many students enter college with no clear choice of a major in mind. General education requirements, many of which are completed during the first two years, will often acquaint students with disciplines from which they may select a major.

Teacher Education

The requirements for teacher education programs are listed in the Division Structure and Course Descriptions section of this catalog. These programs are selective. An admission process must be completed for entry into either the elementary or secondary education programs.

Students who intend to pursue licensure as an elementary or secondary school teacher should contact the Division of Education as early as possible in their college career.

Both education programs are state and nationally accredited. They follow a model in which students progress through coursework and field experiences as a cohort. Programs are highly interactive and reflective. They emphasize the integration of theory and practice, leadership, diversity, and technology. State and national standards are met through developmental, constructive, and collaborative programs.

Honors Program

The Honors Program represents an opportunity for UMM students to pursue an interdisciplinary and interdivisional curriculum and work toward graduation with honors. All UMM students are eligible to participate in the Honors Program. Students normally apply to the program in the spring semester of their freshman year and begin coursework in their sophomore year. While everyone may apply, academic success in the fall semester, faculty recommendations, and a short essay may be used to limit the number of students to those with the proven motivation and likely ability to succeed in the program. Applications are available at the Honors Office, 231 Community Services. Students wishing to register for an honors course must be enrolled in the Honors Program. If spaces remain in an honors course at the end of registration, non-honors students may enroll with the permission of the instructor.

To graduate with honors, participants must 1) complete the course IS 2001H—Honors: Traditions in Human Thought, usually in the fall of their sophomore year; 2) complete at least four other Honors courses at UMM; 3) successfully complete a multidisciplinary senior honors project; and 4) earn a UMM GPA of 3.50 or higher.

Honors courses are limited to a class size of 20. The elective courses examine a particular topic from an interdisciplinary perspective. The courses are often team-taught by faculty from different UMM academic divisions and concern subjects of special interest to the faculty who design them.

The senior honors project is a substantial scholarly or creative work that shows students' intellectual engagement and their ability to articulate and defend their choices regarding methodology and subject matter to a panel of three faculty from different disciplines, including the project's adviser. It is the responsibility of the student to secure a project adviser, identify two other faculty for the panel in consultation with the project adviser, and register for at least 2 credits of IS 4994—Senior Honors Project. Students should submit the completed project to the Honors Program director and panel members by April 1 and arrange for the defense.

The list of honors courses may change from year to year. The listing below represents a sampling of courses that have been offered in the past and which may be offered in the 2007–2009 biennium. Actual course offerings appear in the *Class Schedule*.

Sample Honors Courses—Updated listings are available through the Honors Program director. For complete course descriptions, see the Division Structure and Course Descriptions section; symbols are explained near the beginning of that section.

Note: The following courses all require approval from the instructor for students not in the Honors Program.

IS 2001H. Honors: Traditions in Human Thought. (Hum) (2 cr; prereq participation in the Honors Program or #; fall, every year)

IS 3111H. Honors: The End of the World as We've Known It: The Apocalypse Then and Now. (SS) (2 cr; prereq participation in Honors Program or #; offered when feasible; spring)

IS 3203H. Honors: A Cross-Section of the Enlightenment. (Hist) (2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

IS 3204H. Honors: Ecological Health and the Sustainability of Common-Property Resources. (Envnt) (2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

IS 3205H. Honors: The Early Modern Body in Literature, Philosophy, and Science. (Hum) (2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

IS 3206H. Honors: Introduction to Game Theory. (M/SR) (2 cr; prereq participation in the Honors Program, high school higher algebra or #; offered when feasible; fall, spring)

IS 3207H. Honors: Utopia(s). (Hum) (2 cr; prereq participation in Honors Program or #; offered when feasible; fall)

IS 3208H. Honors: Totalitarianism: Imagination, Theory, and Experience. (SS) (2 cr; prereq participation in Honors Program or #; offered when feasible; spring)

IS 3209H. Honors: Apocalypse Now? The Science and Policy of Preparing for a Catastrophe. (Envnt) (2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

IS 3211H. Honors: Republic or Empire? The American 1890s. (Hist) (2 cr; prereq participation in the Honors Program or #; offered when feasible; fall, spring)

IS 3212H. Honors: Global Encounters and the Making of the Contemporary World, 1450 to the Present. (HDiv) (2–4 cr [max 4 cr]; prereq high school higher algebra, participation in Honors Program or instr consent; offered when feasible; spring)

IS 3221H. Honors: Open Source vs. Proprietary Technology: The Economics of Networks and Innovation. (SS) (2 cr; prereq participation in Honors Program or #; spring)

IS 3231H. Honors: Drama, Philosophy, and Politics in Classical Greece. (Hum) (2 cr; prereq participation in Honors Program or #; fall, spring)

Honors and Awards

Honors and awards recognize exceptional scholarship and related achievements within the student body. Such scholarship can be demonstrated in a variety of ways. General academic excellence, as traditionally measured by the grade point average (GPA), is one way. Exceptional scholarship, however, may not always be reflected by the GPA. For this reason, UMM also recognizes creative scholarship as demonstrated in a particular discipline.

Graduation With Distinction—Students graduating “with high distinction” have an overall GPA of 3.900 or higher; those graduating “with distinction” have a GPA from 3.750 to 3.890. These standards apply to students who entered fall 1998 or later. Students who entered at an earlier date should consult the catalog for their year of entry.

Graduation With Honors—Students graduating with honors have successfully completed the UMM Honors Program. (See Honors Program above for detailed program requirements.)

Dean's List—The Dean's List recognizes students who have achieved an outstanding academic record during a given semester. To

qualify, students must have earned a GPA of 3.666, have registered for a minimum of 12 credits, taken at least two-thirds of these credits on the A-B-C-D-F grading system, and completed all credits for which they were registered during that semester. The Dean's List is announced each semester by the vice chancellor for academic affairs and dean, a notation is put on the student's transcript, and a certificate is sent to each student named on the list. The Dean's List is also sent to the hometown newspapers of students named to that semester's Dean's List.

There are instances in which coursework may extend beyond a single academic semester or a serious illness or justifiable emergency may make it impossible for work to be completed by the end of a semester. In such cases, students who meet all other criteria for the Dean's List stated above may petition the Functions and Awards Committee, in writing, for an exception; petitions must be filed within two weeks after the beginning of the next semester for which students register. Students who seek such exceptions should consult with the Office of the Registrar for more information.

Scholar of the College Award—Presented annually to students who have demonstrated distinguished scholarly work by making valuable contributions in one or more of the academic disciplines. Nominations are made by the faculty, reviewed by the Functions and Awards Committee, and approved by the Campus Assembly.

In addition to the above scholastic honors, the University of Minnesota, Morris recognizes campus-wide student leadership through the following awards:

Alumni Award for Outstanding English Major—Given to an English major in his or her last year at UMM whose performance in English classes has been consistently superior and who has made positive contributions to the discipline or major in and beyond the classroom.

Art History Book Award—Given to a graduating art history major in recognition of academic excellence and potential for further achievement in the arts.

Abbott Award in Physics—Presented to a graduating senior majoring in physics, who has the greatest potential for achieving a professional career in physics or a physics-related field. The award was established by Robinson Abbott, professor of biology from

1961–1991, and his wife, Rose Marie, who taught biology courses at UMM, to recognize the importance UMM has played in their lives. All four Abbott children graduated from UMM, three with majors in physics.

American Indian Salt Springs Award—Presented to outstanding American Indian students on the basis of academic excellence and contribution to the Indian and campus community. To be eligible, the student must return to UMM the following year.

Natalie Benoit Memorial Award—Presented to a junior or senior who has demonstrated ability and shows promise as a serious art student. Established in memory of Natalie Benoit by her parents, George and Joan Benoit, former Morris residents. Natalie was an art major studying at Penn State at the time of her death in an accident.

Chris Berg Memorial Award—Presented annually to an outstanding senior majoring in economics who has demonstrated academic excellence in that field. It is presented by the economics/management faculty in memory of their late colleague.

Bos Research Award—Presented annually to enhance the undergraduate research experiences of UMM students. The funds may be used to cover costs associated with the pursuit of undergraduate research. All UMM students are eligible to participate. Funds are distributed by the college academic dean, with the amount of dollars distributed and the number of recipients to be determined each year according to the dean's discretion and the amount of funding available. The award is in honor of Angela Bos '01, a distinguished alumna of UMM.

Clemens "Johnny" Brauer Memorial Award—This award supports geology majors by providing financial assistance to cover field study expenses. The award honors the memory of Clemens Brauer, associate professor of geology from 1966 to 1981, who emphasized field work as an important part of a geology major. His students and the campus knew him as "Doc Rock." He passed away in May of 2003.

Rodney A. Briggs Library Student Art Award—Recognizes talented UMM students and creates a permanent quality library art collection. UMM art faculty identify up to ten works from each of the two student art shows. A committee of two library staff, two library student assistants, and an Academic Services

Support Committee member select one piece from each of the art shows.

Keith Carlson Memorial Jazz Award—Presented annually to the most outstanding jazz musician at UMM. This award was established in memory of Keith Carlson by Jack and Ethel Carlson.

Chancellor's Award—Presented to outstanding students on the basis of academic excellence and contribution to campus life. The Executive Committee of the Morris Campus Student Association and student members of the Campus Assembly nominate students for this award. Students in turn are endorsed by the Functions and Awards Committee. UMM's Chancellor makes the final selection.

pdf Chemistry Award—Presented annually to a senior chemistry major who has demonstrated outstanding scholarship, potential, and service in chemistry.

Allen W. Edson Award—Presented annually in recognition of a student's total contribution to campus life. Selection is made by the Executive Board of the Morris Campus Student Association, student members of the Campus Assembly, and the faculty. Allen Edson was superintendent of the University of Minnesota West Central School of Agriculture and Experiment Station on the Morris campus from 1947 to 1958. He joined the WCSA staff in 1921.

Edith Rodgers Farrell Memorial Award for Undergraduate Research—Granted to a graduating senior whose research is judged to be excellent by a jury of faculty. Edith Rodgers Farrell was a professor of French and advocate of undergraduate research. She served UMM from 1985 until her death in 1997.

Mimi Frenier Award in Women's Studies—Granted annually to a junior or senior women's studies major in recognition of high academic achievement and social, political, and civic activism. This award was established by colleagues, students, alumni, friends, and the UMM Commission on Women in recognition of Professor of History Mariam Frenier's dedication to UMM and in appreciation for her contributions to the development of the women's studies major. She served UMM from 1973 until her retirement in 2004.

Freshman Chemistry Award—This award, honoring a first-year student's outstanding performance in a chemistry class, is given by the Chemical Rubber Company.

Dimitra Giannuli Memorial Award—Based on the excellence of a paper written for any of the history courses offered at UMM. This award was established by colleagues, friends, family and alumni in memory of Dimitra Giannuli, associate professor of history. She served UMM from 1992 until her death in 2003.

Gieske Academic Award—Offered annually to outstanding political science majors in their senior year, recipients will have an exceptional record of accomplishment at UMM as well as strong prospects for success after graduation. The award is in memory of Millard R. Gieske, professor of political science from 1963 to 1991, a respected leader in many professional organizations and the author of many political works.

Gieske Internship Award—Supports political science students who pursue legislative internships in Washington, D.C., or the Minnesota State capitol. This award honors the memory of Millard Gieske, UMM professor of political science.

Arnold Henjum Scholar-Athlete Award—Presented to a senior male athlete on the basis of academic and athletic excellence and integrity, this award honors Arnold Henjum, professor of education from 1964 to 1992, who made innumerable contributions to Minnesota public education.

Lois P. Hodgell Printmaking Award—Presented annually to a student who demonstrates creative potential in the field as well as a technical understanding of a variety of print processes. This award honors Lois P. Hodgell, professor of art at UMM from 1962 until her retirement in 1993. The award recipient must show outstanding achievement in printmaking.

Women's Honors Athlete Award and Men's Honor Athlete Award—Selected by a committee of coaches on the basis of academic and athletic achievement, nominees have a grade point average of 3.00 or higher.

Willis Kelly Award—Presented annually to a senior female athlete who most exemplifies the spirit of competition in women's athletics at UMM. The award is in memory of Willis Kelly, a physical education coach and athletic director at UMM for more than 20 years. She became the first director of women's athletics in 1975 and served as director of men's and women's athletics from 1982 until her retirement in 1987.

Curtis H. Larson Award—Conferred upon the graduate chosen as senior class speaker. The selection is made by the faculty and graduating seniors. Established in honor of the late Curtis H. Larson, UMM's first class speaker in 1964, who died in an automobile accident while serving as a Peace Corps volunteer in Ecuador.

Mary Martelle Memorial Award—Presented annually to a student and to a staff member deemed to have made outstanding contributions to campus life. This award perpetuates the memory of Mary Martelle, senior secretary in the Office of Student Activities from 1965 until her death in 1976. Nominations are made by the entire campus community and the recipients are determined by the Functions and Awards Committee.

David Minge Internship Award—Supports students seeking Washington, D.C., internships—educational opportunities that former Congressman David Minge values as important and insightful components in learning about public policy process at the federal level. Preference is given to internship participants who integrate the study of peace, justice, conservation, the environment, rural affairs, or similar issues.

Dik Munson Art Award—Presented to outstanding first- and second-year students in studio art who demonstrate creative potential in future discipline coursework. This award is intended for purchase of materials and supplies for the recipient's artwork and experimentation with new media.

Betty Peterson Memorial Accompanying Award—Presented annually to a senior student who excels in music, the annual award recognizes high accompanying ability and quality. The award was established in memory of Betty Peterson by her family and friends.

Jay Y. Roshal Award—Presented to a senior majoring in biology who demonstrates promise and interest in a career in the biological sciences. The award is in honor of the late Jay Y. Roshal, professor of biology at UMM from 1960 to 1983, and the first chairperson of the Division of Science and Mathematics.

William R. Scarborough Memorial Award—Presented annually to a senior enrolled in either the elementary or secondary education program, this award recognizes a student's demonstrated competence and potential for becoming an outstanding member of the teaching profession. William Scarborough

joined the UMM faculty in 1966, made many contributions to public education in Minnesota, and served as chairperson of the Division of Education until his death in 1979.

Student Leadership Award—Presented annually to recognize student achievements in the life of the campus. These awards recognize students who are leaders of student organizations, committees, and special groups whose activities or programs are coordinated with or administered by Student Activities or Residential Life.

Owen and Frances Tate Award—Provides matching dollars to cover travel expenses for students presenting scholarly work at symposia and professional meetings, engaging in artistic activities, conducting research projects, or performing outside of the UMM campus community. This award was established by the Tate family to honor the memories of Owen and Frances Tate, lifelong residents of Big Stone County, and to support UMM student learning activities that do not have other funding sources available.

Ted Underwood Award in History—Presented to a graduating senior with a major or minor in history or a history concentration in the social science major who has demonstrated distinguished academic performance in history. The award is named for Dr. Ted L. Underwood, history faculty member from 1967 until his retirement in 1999.

For more information about these and other awards, contact the respective division chairperson.

May Session

The May session is a three-week term, scheduled after spring semester ends, that is part of the larger summer term at UMM. It is designed to offer unique courses especially suited to a short, intense time frame. Courses include, but are not limited to, short-term domestic and international study programs; topics that are innovative, experimental, interdisciplinary, and examined in greater depth; or special internships. Course offerings and enrollment requirements are determined by the UMM Summer Session Office.



University of Minnesota Degrees

Degrees from the University of Minnesota are granted by the Board of Regents upon the recommendation of the faculty of the University school or college, in this case the Morris campus, in which the student is enrolled. Requirements vary among the undergraduate colleges of the University, and students must meet all course, credit, and grade point average requirements of the college in which they are enrolled. The *Morris Catalog* is in effect for nine years; this catalog is in effect from fall 2007 through the end of summer session 2016. However, students may choose to use the catalog in effect their first term and year at UMM (provided it has not expired) or any subsequent catalog.

The General Education requirements completed under any previous catalog, including expired catalogs, may be used to complete the bachelor of arts degree. Permission to use the major requirements from an expired catalog must be obtained from the faculty. If a degree application is on file with accompanying documentation that defines requirements to be completed, reasonable effort will be made to allow students to graduate based on that agreement. All other degree requirements—total credits, residency, GPA calculation, etc.—follow semester standards and policies in place at the time the degree is awarded.

Students in elementary education and secondary education licensure must complete licensure requirements and apply for licensure within seven years from the time of admission to the licensure program.

Prospective graduates must file an application for their degree and must meet all financial obligations to the University.

Bachelor of Arts Degree at UMM

Requirements for the bachelor of arts (B.A.) degree at the UMM consist of two parts: general education and the major. General education consists of three parts: First-Year Seminar, Skills for the Liberal Arts, and Expanding Perspectives. First-semester freshmen are required to enroll in the First-Year Seminar. All students must meet the requirements listed in Skills for the Liberal Arts and in Expanding Perspectives. The major is a field of specialization with requirements specified by faculty in that discipline or academic area.

The Skills component of general education helps students acquire the intellectual and communication skills needed for successful advanced work. The Expanding Perspectives component helps students gain enough understanding of the principal areas of human endeavor to continue learning and to have a sense of the limits of their knowledge. Work in the major helps students learn in depth and makes them reasonably expert in one area.

In order to lay the foundation for learning early, students are expected to complete a significant part of the Skills component during their first and second years of college. The emphasis is on establishing an intellectual framework for future work—a framework consisting of writing, linguistic reasoning, and artistic skills. Students continue to develop these skills in advanced courses. It should be noted that in most Skills categories, the requirements may also be met through assessment of prior learning, transfer of credit, individual projects, testing, and other means. These methods may be especially helpful in the case of nontraditional students.

The Expanding Perspectives component aims to produce liberally educated people who are able to understand how knowledge is acquired in many different fields. These people usually have broad interests and know where to obtain information on almost any subject. They can solve problems because they bring ideas and techniques from one field to bear on another in innovative ways. In a world of diverse peoples, activities, and value systems, all of which are increasingly interrelated, it is especially important that college graduates have breadth as well as depth in their education and that they expand the horizons of their knowledge.

Expanding Perspectives is divided into two parts. One consists of a traditional core of liberal studies roughly organized around the subjects of history, social sciences, humanities, fine arts, and the biological and physical sciences. The other addresses contemporary themes, which are grouped under the heading The Global Village. The goal is to expand students' perspectives on human diversity, people and the environment, the international scene, and issues of ethical and civic responsibility. In some cases, students may also satisfy Expanding Perspectives requirements through independent study, transfer credit, internships, study abroad, special examinations, and other means. Students gradually fulfill the Expanding Perspectives requirements throughout their college career.

During the freshman year, students should explore possible majors or fields of specialization, keeping in mind that, in a liberal arts degree program, the major is more of an intellectual “home base” than preparation for a specific occupation.

Transfer students with degrees from other colleges must complete the UMM degree requirements in order to have a major or minor appear on the UMM transcript. Majors and minors do not appear on the transcript unless they are part of a degree program. Licensure graduates from other colleges who wish to add a teaching major or minor do not need to complete the UMM degree program.

Courses taken to complete general education requirements may also apply to requirements in the major. However, all students must complete 60 credits of general education that are not drawn from the discipline of the major.

Degree Requirements

1. General Education Requirements

(60 credits)

Provision i

UMM courses designated as appropriate for meeting general education requirements are those which, if passed successfully, demonstrate the student’s competency in a given skill or area.

Students are required to complete a minimum of 60 credits of general education coursework outside the discipline of the major and must meet the requirements listed below. The requirements may be met not only through UMM courses, but also by transfer of credit, examinations for proficiency or credit, assessment of prior learning, individual projects, and other means. For details, students should consult with their advisers.

In some instances the specific general education requirements may be met using fewer than 60 UMM credits. If this occurs, then introductory or advanced elective courses from any discipline outside the major—with the exception of courses in elementary or secondary education, wellness and sport science, or accounting courses in management—may be used to fulfill the remaining credits of the 60-credit general education requirement.

Note: The designation following each category below, e.g., FYS for First-Year Seminar, appears at the beginning of the parenthetical information for each course that is appropriate for that category.

I. **The First-Year Seminar (FYS)*****—One 2-credit course.

II. **Skills for the Liberal Arts**—One to five courses.*

These requirements emphasize the development of the intellectual skills, the communication skills, and the framework for learning needed for successful advanced work. Because new students need this foundation early, they are expected to complete many of these requirements during their first and second years.

A. *College Writing (CW)*—One course.*

B. *Foreign Language (FL)*—Two courses in a single language.**

C. *Mathematical/Symbolic Reasoning (M/SR)*—One course.*

D. *Artistic Performance (ArtP)*—One course.

III. **Expanding Perspectives**—Eight courses of at least 2 credits each.

A. *Historical Perspectives (Hist)*—One course.

B. *Human Behavior, Social Processes, and Institutions (SS)*—One course.

C. *Communication, Language, Literature, and Philosophy (Hum)*—One course.

D. *Fine Arts (FA)*—One course.

E. *Physical and Biological Sciences (Sci—without lab; Sci-L—with lab)*—Two courses, at least one with lab.

F. *The Global Village*—Two courses, one from each of two areas.

1. *Human Diversity (HDiv)*

2. *People and the Environment (Envt)*

3. *International Perspective (IP)*****

4. *Ethical and Civic Responsibility (E/CR)*

*This requirement may be fulfilled through exemption.

** Students are required to demonstrate proficiency in a second language at the level achieved at the completion of the first year of college language study. Students can demonstrate proficiency by: a) passing 1002—Beginning Language II or an equivalent college course; b) passing the appropriate placement test; c) passing an examination for credit, such as AP or CLEP; or d) proving that they have a native language other than English.

Degree Requirements

Students who plan to complete courses in the same language that they studied in high school must take the placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, they may follow the recommendation of their language instructor as to the proper entry course.

*** Students who do not successfully complete FYS should contact the Scholastic Committee Office (320-589-6011) for information on completing the requirement.

**** International students should contact the Scholastic Committee Office for an exemption.

Provisions ii through iv

Provision ii—Goals will be used to match courses to general education requirements (see below).

Provision iii—Only courses of two or more credits will satisfy an Expanding Perspectives requirement.

Provision iv—A course can satisfy only one of the general education categories.

Each major can provide students with a statement about how a student majoring in that area will formally acquire computing and writing skills. Students should contact their faculty adviser for current information.

Goals of the General Education Requirements

- I. *First-Year Seminar*: First-year seminar aims not only to teach students to think critically and to assess sources of information, but also to help students to become aware of the lenses through which they perceive and to recognize that their perceptions are not universal.
- II. *A. College Writing*: To understand the writing process through invention, organization, drafting, revising, and editing; and develop writers who can write about a range of ideas for a variety of readers.
- II. *B. Foreign Language*: To develop some fluency in the skills of speaking, listening, reading, and writing in a second language; and critical insight into another culture.
- II. *C. Mathematical/Symbolic Reasoning*: To strengthen students' ability to formulate abstractions, construct proofs, and utilize symbols in formal systems.
- II. *D. Artistic Performance*: To introduce an understanding of the creative process through individual performance, and demonstrate skill in such activities as composition, theater, dance, studio art, and music.
- III. *A. Historical Perspectives*: To increase students' understanding of the past, the complexity of human affairs, the ways in which various forces—economic, cultural, religious, political, scientific—influence efforts to control events, and the ways historians verify and interpret their findings.
- III. *B. Human Behavior, Social Processes, and Institutions*: To increase students' systematic understanding of themselves as functioning humans, their individual similarities to and differences from others, their awareness of the nature and significance of their conscious experience, and the forces that shape their interpersonal attachments and interactions; or to increase students' understanding of methods of analyzing modern society or some significant legal, political, economic, religious, social, or scientific component of it.
- III. *C. Communication, Language, Literature, and Philosophy*: To expand students' capacity to understand, analyze, discuss, and evaluate discourse concerning the complexity of the human condition through the study of languages and works of thought and imagination.
- III. *D. Fine Arts*: To develop students' understanding, analysis, and appreciation of the arts.
- III. *E. Physical and Biological Sciences*: To increase students' understanding of the structure and dynamics of the physical and biological worlds, and of the scientific method.
- III. *F. The Global Village*: To increase students' understanding of the growing interdependence among nations, peoples, and the natural world.
- III. *F. 1. Human Diversity*: To increase students' understanding of individual and group differences (e.g., race, gender, class) and their knowledge of the traditions and values of various groups in the United States.
- III. *F. 2. People and the Environment*: To increase students' understanding of the interrelatedness of human society and the natural world.
- III. *F. 3. International Perspective*: To increase students' systematic understanding of national cultures substantially different from those in which they received their prior schooling.

III. *F. 4. Ethical and Civic Responsibility:* To broaden and develop students' capacity to question and reflect upon their own and society's values and critical responsibilities, and to understand forces, such as technology, that cause them to modify these views and often mandate creation of new ways to resolve legal, social, and scientific issues.

2. Major or Area of Concentration

The major at UMM is defined as an intensive and coherent program of study reflecting the structure of one or more fields of knowledge. The major complements the essential skills and the broad base of knowledge provided by general education.

The purpose of the major is to ensure that each student pursues a particular field of knowledge in depth, investigates advanced theories and schools of thought, and becomes competent in using the language and methods of inquiry of the field. It is through such concentrated study that a student begins to master a body of knowledge and comes to understand the nature of expertise in the chosen field, including both its power and its limitations.

Students complete a major by fulfilling the requirements as specified elsewhere in this catalog. Some students may choose instead to complete an area of concentration, which is an individualized, often interdisciplinary, group of courses that meets the requirement of study in depth of a specific field of knowledge. (Students who wish to complete an area of concentration must have the program approved by appropriate faculty advisers, division chairs, and the vice chancellor for academic affairs and dean. A copy of the approved program must be filed with the Registrar's Office. Detailed procedures and forms are available from the Office of the Vice Chancellor for Academic Affairs and Dean or online at www.morris.umn.edu/services/acad_affairs/aavarious.html.)

Prototypes for areas of concentration already given provisional approval by the dean—including actuarial science, American Indian studies, American studies, animal behavior, art therapy, biochemistry with forensics science, biology with forensics science, biostatistics, chemistry with forensics science, criminal justice (see LAHS major on page 134), digital media studies, environmental studies, international studies, journalism, peace studies, and sports management—can be found online at www.morris.umn.edu/academic/areas. Students must fill out the appropriate forms

and request final approval. The area of concentration forms are available online at www.morris.umn.edu/services/acad_affairs/aavarious.html#areaconcentration.

Transfer students with degrees from other colleges must complete UMM degree requirements in order to have a major appear on the UMM transcript. Majors do not appear on the transcript unless they are part of a degree program. Licensure graduates from other colleges who wish to add a teaching major do not need to complete the UMM degree program. A signature from the Division of Education on the licensure application form, along with a transcript of the courses completed, is sent to the state's Department of Children, Families, and Learning.

3. Minor or Area of Emphasis

The minor shares the essential characteristics of the major but differs from it quantitatively. It indicates a special interest and expertise beyond general education and provides sufficient skills and knowledge of the field to form a basis for further study. The requirements for minors are listed in this catalog under the appropriate academic discipline.

Students may choose instead to complete an area of emphasis, a group of courses that meets the same standards used for minors. (Students wishing to complete an area of emphasis must follow the same procedures used to define an area of concentration.) A minor or area of emphasis is not required for graduation.

Transfer students with degrees from other colleges must complete the UMM degree requirements in order to have a minor appear on the UMM transcript. Minors do not appear on the transcript unless they are part of a degree program. Licensure graduates from other colleges who wish to add a teaching minor do not need to complete the UMM degree program. A signature from the Division of Education on the licensure application form, along with a transcript of the courses completed, is sent to the state's Department of Children, Families, and Learning.

4. Minimum Required Credits (120 credits)

A student can fulfill the course requirements for graduation in most programs within the 120-credit minimum, but some combinations of general education courses, major, and teacher education licensure programs may require more than 120 credits. The 120 credits required must include a minimum of 60 credits of general education outside the discipline of the major.

No major or program may require students to take more than 40 of the 120 credits required for graduation in any one discipline* but students will be allowed to count up to 48 credits in a single discipline toward the 120.

Any course that carries credit in one University of Minnesota college will carry credit in all other University colleges, at least as an elective, including all University transfer coursework that is accepted when a student is admitted. Some courses that carry University credit may not count toward college or program degree requirements, or may, if a student changes programs, exceed the credit limits from the areas identified in the following paragraph and thus not count toward the degree.

No more than 8 credits in Mus 1300 through Mus 1340, no more than 4 credits in WSS 12xx skills, no more than 4 credits in WSS 1401 through WSS 1412, and no more than 4 credits in Psy 4896 may be applied to the 120-credit degree requirement. The use of the grade of D in the major may be restricted by the discipline.

5. Quality of Work

The cumulative GPA required for graduation is 2.00. A minimum GPA of 2.00 (or higher if indicated by the discipline) is required in the major or area of concentration and in the minor or area of emphasis in order to graduate. Both the cumulative GPA and the major/minor GPA include all, and only, University of Minnesota coursework.

6. Residency

Students must earn at least 30 semester credits from the University. Of the last 30 credits earned before graduation, at least 15 must be awarded by UMM. Credits earned through University of Minnesota Continuing Education classes are considered residence credits.

** For the purpose of this policy all secondary education methods courses are considered to belong to the secondary education discipline. College composition credits*

do not count toward the 40-credit maximum in English. Introductory foreign language courses do not count toward the 40-credit maximum in the language disciplines. Introduction to public speaking courses do not count toward the 40-credit maximum in speech communication. Credits earned through the CLEP general examination in mathematics do not count toward the 40-credit maximum in the mathematics discipline. For music majors with teaching licensure, Mus 1300, 1310, 1320, and 1340 credits are allowed to count toward the 60-credit general education requirement.



This is the Division Structure and Course Descriptions section of the 2007-2009 University of Minnesota Morris Catalog.

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Division Structure

Disciplines (i.e., departments or fields such as English, physics, or psychology) are grouped administratively into four divisions—Education, Humanities, Science and Mathematics, and Social Sciences—to help integrate the various areas of study into a liberal arts curriculum, provide a forum for faculty discussion of common programs and interests, and encourage the planning of interdisciplinary academic programs. In addition, there are interdisciplinary courses, internships, and majors that cross divisional lines; these are found under Interdisciplinary Studies and fall under the direct responsibility of the vice chancellor for academic affairs and dean.

There are also courses from disciplines across the campus offered through Continuing Education. Such courses serve two distinct purposes. Some Continuing Education courses are on topics not found elsewhere in the curriculum and are designed for regularly enrolled students. Other Continuing Education courses are offered primarily to off-campus students enrolled in such programs as extension classes or through GenEdWeb, an online program targeted to academically talented high school students. Courses offered through Continuing Education are designated as such in the last sentence of the course description. All courses offered through Continuing Education have an academic home in one of UMM's disciplines.

Courses are listed alphabetically by discipline. Each discipline description includes, as appropriate, requirements for the major, the minor, and teacher education licensure.

Division of Education

- Education (page 91)
- Elementary Education (page 93)
- Secondary Education (page 97)
- Wellness and Sport Science (page 175)

In education programs, students can study education and its role in society; complete a major and teaching licensure in elementary education with a preprimary or middle level specialty; prepare to teach one or more liberal arts subjects at the secondary school level; and/or prepare for graduate study in education.

Intercollegiate athletics, lifetime physical activity classes, coaching endorsement, and courses addressing sports management and various wellness issues are offered in the wellness and sports science discipline.

Many students enrolled at UMM, no matter what their area of study, participate in intercollegiate athletic competition, which is directed by the wellness and sport science faculty.

Division of Education programs are enhanced through faculty commitment to personalized instruction, use of current instructional technologies, student research, and opportunities for student and faculty participation in multicultural and international educational experiences.

Division of the Humanities

- Art History (page 70)
- Art, Studio (page 72)
- Chinese (page 83)
- Dance (page 88)
- English (page 103)
- French (page 112)
- German (page 119)
- Humanities (page 125)
- Italian (page 130)
- Music (page 146)
- Philosophy (page 149)
- Spanish (page 165)
- Speech Communication (page 168)
- Theatre Arts (page 173)

The Division of the Humanities is composed of 10 disciplines offering a major, as well as supplementary courses in dance, Italian, and the humanities, i.e., the literature and thought of the non-English-speaking world in translation.

Since the time of the ancient Greeks and Romans, the disciplines in the humanities have been central to the meaning of a liberal education. These disciplines investigate important questions about the nature of human beings and their cultures, and examine alternative views concerning the meaning and direction of life.

In addition to its curricular programs, the Division of the Humanities sponsors and directs a varied program of cocurricular activities, organizations, and events for the campus and surrounding communities, including:

- Student art exhibitions, an active student Art Club, and Art Gallery exhibits of works by professional artists.
- Scheduled poetry readings; the Prairie Gate Press; foreign and American films; the Writing Room to help students develop creative and expository writing skills; lectures on literary and language subjects; French, German, and Spanish student clubs with a variety of projects; opportunities for language students to travel and study abroad.
- A varied program of musical events, including symphonic winds, orchestra, jazz ensemble, and choir concerts, as well as recitals by students and faculty; opportunities to work with well-known composers and artists in residence; tours.
- A philosophy colloquium in which internationally distinguished philosophers participate.
- A number of opportunities in speech communication, including sponsorship of speakers and discussion groups, student attendance at conferences, and participation in the student organization Communication Club, as well as the UMM Intercollegiate Speech Team, which competes at several meets each year.
- Annual offering of faculty- and student-directed plays; opportunities to work with professional troupes in residence; annual theatre tour to New York or London, when feasible.

The Division of the Humanities provides students with opportunities to participate in the varied curricular and cocurricular programs described above. Through participation in these programs as either employees or volunteers, scores of students each year discover for themselves the meaning and value of a liberal education.

Finally, the Division of the Humanities offers its students one of UMM's most beautiful and useful facilities, the Humanities Fine Arts Center—a building to which *Progressive Architecture* granted its First Design Award with the following citation:

“It gives architectural form to a powerful new direction in education—the school being integrated into the community. This project shows how the school can be a model for community development.”

Division of Science and Mathematics

- Biology (page 77)
- Chemistry (page 80)
- Computer Science (page 84)
- Geology (page 116)
- Mathematics (page 142)
- Natural Science (page 149)
- Physics (page 151)
- Statistics (page 170)

Whether interested in biology, chemistry, computer science, geology, mathematical sciences, or physics, students find that programs in UMM's Division of Science and Mathematics offer excellent preparation for employment in a related field, graduate study, or teaching in junior or senior high school. Courses leading to Minnesota secondary education licensure are offered in chemistry, physics, life science, earth science, and mathematics. The sciences form an integral part of UMM's preprofessional programs in the health, medical, and engineering fields and contribute to general education studies.

Students have many opportunities to work closely with their professors. Students have conducted research with faculty on evolutionary computation, distributive computing, and asynchronous transfer mode networks. They have helped develop a variety of methods for the analysis of statistical data, such as a loglinear model of educational data and the representation of three-dimensional copulas in terms of two-dimensional marginals. Students researched the physics of highly excited atoms, studied emissions of astronomical masers, performed observational optical astronomy, and modeled the behavior of materials with computers. They have investigated the role of fire in prairies, invasive species in forests, malformations and disappearance of amphibians, regulation of cell cycles and bioluminescence, genetics of endangered species, microbial resistance to antibiotics, vertebrate embryogenesis, and effects of changing climate and atmosphere on forest trees. They have studied the geology of glacial deposits in Minnesota, analyzed the fossils and sediments of the Cretaceous Seaway in South Dakota, and contributed to faculty field research in the Rocky Mountains of Colorado and Idaho. They have conducted research on the breakdown of pesticides, the preparation

of novel chemical compounds, and the development of new chemical reactions both at UMM and in universities and laboratories across the country. Students are encouraged to publish results of their research with faculty or to present their findings at conferences or seminars. Many students at some time serve as teaching assistants, earning a financial stipend while assisting professors in tasks such as helping with laboratory courses, tutoring beginning students, assisting with greenhouse maintenance, and operating the UMM telescope.

In geology and biology, field trips are an integral part of the learning process. Students and faculty have traveled to the Florida Keys, central and coastal Belize, the volcanoes of Hawaii, the deserts of Arizona and New Mexico, western Canada and Alaska, and throughout Minnesota and surrounding regions of the Upper Midwest, in seeking a better understanding of our Earth's natural environments, landforms, and processes.

Students will find other ways to enhance their studies in the sciences. The Geology, Math, ACM Computer Science, Biology, ACS Chemistry, and Physics and Engineering Clubs provide an opportunity for students and faculty who share mutual interests to meet informally and participate in related activities. In addition, visiting scientists frequently come to campus to discuss current scientific problems and topics with UMM faculty and students.

The Division of Science and Mathematics programs are housed in new and remodeled facilities. Biology and chemistry labs, along with several classrooms, the campus bookstore, post office, and print shop are all located in the east wing of the Science Building, which was built in 2000. The computer science, geology, mathematics, physics, and statistics programs are located in the west wing of the Science Building, which was thoroughly renovated in 2002. These state-of-the-art teaching and research spaces provide students with a wealth of opportunities to delve deeply into their studies through both course-related work and individualized research activities.

Division of the Social Sciences

- Anthropology (page 68)
- Economics (page 89)
- Geography (page 116)
- History (page 121)
- Liberal Arts for the Human Services (page 134)
- Management (page 139)
- Political Science (page 154)
- Psychology (page 157)
- Social Science Major (page 161)
- Sociology (page 163)
- Women's Studies (page 178)

The social sciences consist of the branches of study dealing with the structure of society and the activities of its members. The Division of the Social Sciences includes the disciplines of anthropology, economics, geography, history, management, political science, psychology, and sociology. In addition, its courses are incorporated into the interdisciplinary programs in Latin American Area Studies, Women's Studies, and European Area Studies; and it offers a major in Liberal Arts for the Human Services and a social science major for teacher licensure. The social sciences coursework is oriented toward liberal education studies that prepare students to understand human beings in their social relationships.

Many of the social science disciplines encourage various kinds of fieldwork. Students intern on the local as well as state and federal levels as social workers, counselors, state legislative assistants, and administrative assistants in a variety of programs and organizations, including the Older Adults Program, welfare agencies, and group homes.

A number of students have co-authored studies with faculty and have presented papers at professional conferences. Many students serve as research and teaching assistants. They have used primary research materials to recreate historical events for reports filed in the archives of the West Central Minnesota Historical Research Center. They go beyond the boundaries of the strictly "classroom" education to explore and gain firsthand experience with the professional tools of their field.

UMM's Division of the Social Sciences has many resources that lend themselves well to establishing individual learning experiences. Among these are the West Central Minnesota Historical Research Center, Psychology Laboratory, Project on Fantasy, Model United Nations Program, and a wide variety of internship and field studies programs.

Close student-faculty rapport is an important aspect of social sciences study. Individualized attention is emphasized and students are encouraged to work on a one-to-one basis with professors to create a program that best suits their needs and interests.

Interdisciplinary Programs

- African American Studies (page 67)
- European Studies (page 107)
- Interdisciplinary Studies (page 127)
- Latin American Area Studies (page 131)

UMM offers interdisciplinary majors and/or minors, whose educational objectives are realized through an integration of courses from two or more disciplines, in African American Studies, European Studies, Latin American Area Studies, Liberal Arts for the Human Services, and Women's Studies. Interdisciplinary course offerings not associated with an interdisciplinary major or minor involve in-depth material of two or more traditional academic disciplines or divisions, and some include subject material of a very broad nature that cannot properly be regarded as a part of a traditional discipline or division.

Continuing Education, Regional Programs, and Summer Session

- Anthropology (page 68)
- Art, History (page 70)
- Art, Studio (page 72)
- Biology (page 77)
- Chinese (page 83)
- Dance (page 88)
- Economics (page 89)
- Education (page 91)
- English (page 103)
- French (page 112)
- Geology (page 116)
- History (page 121)

- Humanities (page 125)
- Interdisciplinary Studies (page 127)
- Italian (page 130)
- Management (page 139)
- Music (page 146)
- Political Science (page 154)
- Spanish (165)
- Theatre Arts (page 173)
- Wellness and Sport Science (page 175)

Continuing Education, Regional Programs, and Summer Session (CERP) shares in the liberal arts mission of UMM and also serves as the primary outreach unit of the campus. CERP offers credit and non-credit courses and programs; some are designed to serve regularly enrolled students while others are targeted largely to off-campus students.

Courses offered through Continuing Education are identified at the end of the course description. For complete details on the mission, function, and work of Continuing Education, Regional Programs, and Summer Session see page 8 in this catalog.

Degree Requirements and Course Descriptions

Course Numbers and Designators

Course numbers reflect the level of difficulty of a course. Generally, courses numbered 1xxx are for undergraduates in their first year of study, courses numbered 2xxx are for undergraduates in their second year of study, courses numbered 3xxx are for undergraduates in their third year of study, and 4xxx are for undergraduates in their fourth year of study. Some courses require prerequisite coursework or advanced class status for entrance while others do not. Students should plan their programs carefully to complete courses in the proper sequence. Students who have not successfully completed the prerequisite course(s) may be administratively dropped from a course.

The current *Class Schedule* contains information on course prerequisites, hours and days, and room assignments.

In connection with course numbers, disciplines and programs are identified by a two-, three-, or four-letter designator prefix (e.g., Ed for Education, Pol for Political Science, LAAS for Latin American Area Studies).

Symbols, Abbreviations, and Punctuation

The following symbols, abbreviations, and punctuation are used throughout the course descriptions in lieu of page footnotes:

- 1201-1202-1203.....A *hyphen* between course numbers indicates a sequence of courses that must be taken in the order listed. The first course in the sequence is a prerequisite for the second course, and the second course in the sequence is a prerequisite for the third course.
- 1201, 1202, 1203.....A *comma* between course numbers indicates a series of courses that may be entered any semester.
- Honors.....“Honors:” at the beginning of a course title indicates an Honors course.
- Sci-L.....Courses that meet specific general education requirements are designated as FYS, CW, FL, M/SR, ArtP, Hist, SS, Hum, FA, Sci, Sci-L, HDiv, Env, IP, E/CR. (See page 57 for more information about general education requirements.)
- crCredits per semester.
- #.....Approval of the instructor is required for registration.
- prereqBefore enrolling in some courses, students must have successfully completed certain other courses, or possess some particular qualification or class standing, known as a “prerequisite” (prereq). Students taking one or more courses as a prerequisite for a second course may register for the second course only after they have successfully completed the prerequisite course(s). If no prerequisites are listed, there are none for the course. A prerequisite listed by number only (e.g., prereq 3105) is in the same discipline as the course being described.
- coreq.....Students must be enrolled in the corequisite (coreq) course(s) at the same time. If no corequisites are listed, there are none for the course. A corequisite course listed by number only (e.g., coreq 3105) is in the same discipline as the course being described.
- prereq or coreqStudents must either successfully complete the prerequisite course, OR may enroll in the pre/corequisite course concurrently.
- ,.....In prerequisite and corequisite listings, a comma means “and.”
- =Credit will not be granted if credit has been received for the course listed after this symbol (e.g., =[Soc 3602]).
- ΔApproval of the discipline offering the course is required for registration.
- @Approval at the college level (i.e., a form with appropriate signatures) is required for registration.
- Cluster.....Some courses are grouped into “clusters” because they have common themes or fulfill common requirements. Most clusters are headed by a paragraph identifying the shared elements of the courses.

The most current version of all UMM course descriptions can be found online at <http://onestop2.umn.edu/courses/mo/designators.jsp>.

African American Studies (AfAm)

This interdisciplinary minor is under the authority of the vice chancellor for academic affairs and dean and is administered by the coordinator of African American Studies.

African American experience and culture are central to American experience and culture. The African American Studies minor allows students of all racial and ethnic identities both to concentrate on African American issues and to integrate their understanding of those issues into the broader context of American and African history and culture. The minor offers an interdisciplinary and interdivisional curriculum that enables students to explore a variety of intellectual approaches and to make methodological and thematic connections and comparisons among those several approaches.

Objectives—The objectives of the African American Studies minor are to 1) familiarize students with the variety, depth, and significance of African Americans' contributions to American culture; 2) enable students to see and appreciate the many African American points of view of history, society, politics, literature, art, and music; 3) help students connect the African American experience to the broader context of Africa and the African diaspora; 4) develop students' understanding of the nature of race and the dynamics of race and racism, particularly in the United States; and 5) give students a grasp of some of the methodological and intellectual approaches to a broad and multifaceted area of study.

Minor Requirements

Students must take a minimum of six courses in at least three different disciplines. At least four of the six courses must be devoted primarily to African American content. As many as two of the six courses may deal in part with African American content. No grades below C- are allowed in the minor.

Courses with PRIMARILY African American content:

- Arth 3241—African American Art
- Engl 2041—Introduction to African American Literature
- Engl 3331—African American Literature
- Hist 3302—African American History to 1865
- Hist 3356—Civil Rights Movement, 1954–1974
- Hist 3357—African American History Since 1865
- Soc 3251—African Americans

Courses with PARTIAL African American content or relevant African content:

- Engl 3301—Multicultural Literature
- Fren 1311—West African Francophone Cinema
- Fren 3041—FRS: Francophone Worlds
- Fren 3042—FRS: Contes francophones
- Fren 3043—FRS: Littérature migrante
- Hist 3004—Africa to 1700
- Hist 3005—Africa Since 1700
- Hist 3301—Red, White, and Black: Race/Culture in Early America
- Hum 1311—West African Francophone Cinema
- Pol 3262—Minorities and Public Policy
- Pol 3506—Government and Politics of Africa
- Soc 2101—Systems of Oppression
- Soc 3121—Sociology of Gender
- Soc 3141—Sociology of Deviance

A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Course Descriptions

Arth 3241. African American Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)
Survey of African American art from colonial times to the present, focusing on social context and aesthetic and biographical issues.

Engl 2041. Introduction to African American Literature. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible; spring)
Introduction to issues and themes in African American literature and culture, with emphasis on historical and cultural context.

Engl 3301. Multicultural Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible; fall)
Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

Engl 3331. African American Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)
Study of African American literature. Particular attention given to issues of gender, class, power, “passing,” and the racialized body.

Fren 1311. West African Francophone Cinema. (IP; 4 cr; =[Hum 1311]; prereq #; fall, odd years)
Same as Hum 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Taught in English, but all papers and some reading/discussion will be in French. Meets Francophone requirement in French major.

Fren 3041. Francophone Studies: Francophone Worlds. (IP; 4 cr; prereq or coreq 3011 or #; fall)
Readings in a variety of cultural and literary texts from among French-language writers of Africa, the Caribbean, Asia, North America, and Europe; study of

Division Structure and Course Descriptions

issues of national identity, race, gender, and postcolonial consciousness. Meets Francophone requirement in French major.

Fren 3042. Francophone Studies: Contes francophones. (IP; 4 cr; prereq or coreq 3011 or #; spring, even years)
Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone requirement in French major.

Fren 3043. Francophone Studies: Littérature migrante. (IP; 4 cr; prereq or coreq 3011 or #; spring, even years)
Examination of texts written by people on the move: immigrants, migrants, people in exile. How do their texts move with them? How do these movements challenge national paradigms? Meets Francophone requirement in French major.

Hist 3004. Africa to 1700. (Hist; 4 cr; offered when feasible; fall, spring)
History of Africa to 1700.

Hist 3005. Africa Since 1700. (Hist; 4 cr; offered when feasible; fall, spring)
History of Africa since 1700.

Hist 3301. Red, White, and Black: Race/Culture in Early America. (HDiv; 4 cr; fall, every year)
History of race in early America. Exploration of the coming together of three groups of peoples—Africans, American Indians, and Europeans—and the roles which they played in the emergence of the “first new nation.”

Hist 3302. African American History to 1865. (HDiv; 4 cr; offered when feasible; fall, spring)
The African-American experience in historical perspective: African origins; slavery; struggles for freedom and equality; cultural, economic, political, and social development in a slave society.

Hist 3356. Civil Rights Movement, 1954–1974. (Hist; 4 cr; offered when feasible; fall, spring)
Background of the Civil Rights movement, emergence of the theory and practice of nonviolence, various Civil Rights groups, role of women, legislative and other accomplishments of the movement, its aftermath and influence.

Hist 3357. African American History Since 1865. (HDiv; 4 cr; offered when feasible; fall, spring)
The African-American experience in historical perspective: the emancipation era; struggles for freedom and equality after slavery; cultural, economic, political and social development in an industrial and post-industrial society.

Hum 1311. West African Francophone Cinema. (IP; 4 cr; =[Fren 1311]; fall, odd years)
Same as Fren 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1311.

Pol 3262. Minorities and Public Policy. (HDiv; 4 cr; prereq 1201 or #; fall, even years)
Analysis of the ways race, ethnicity, and other factors shape political engagement; their implications for public policy and the policy process.

Pol 3506. Government and Politics of Africa. (IP; 4 cr; prereq 1301 or #; fall)

Comparative study of government and politics of contemporary Africa, with special attention to state/society relations, interaction of politics and economic development, political institutions, and conflict.

Soc 2101. Systems of Oppression. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism, ageism, and ableism.

Soc 3121. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Theoretical overview and an examination of how gender affects everyday experiences.

Soc 3141. Sociology of Deviance. (E/CR; 4 cr; prereq 4 or in Soc or #; fall, every year)

An introduction to the sociological study of deviance. Explore the social reality of deviance within contemporary society and examine the social construction of deviant categories. Specific focus on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigation of the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, an examination of the socio-cultural definitions of morality and behavior.

Soc 3251. African Americans. (HDiv; 4 cr; prereq 1101 or Anth 1111; offered when feasible; fall, spring)

Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context.

Anthropology (Anth)

This discipline is in the Division of the Social Sciences. The anthropology curriculum, with support from sociology courses, focuses on providing a comparative understanding of the range of human cultures and societies throughout the world in both humanistic and social scientific terms. Anthropology applies this understanding to problems faced by different groups of people in the flux of the modern world. Courses meet the needs of liberal arts students and students planning to pursue anthropology at the graduate level.

Objectives—Anthropology courses are designed to provide an understanding of human beings and human society with respect to both biology and culture. Students are exposed to a broad historical and comparative framework within which to view the variety of human cultures. Coursework deals with concepts, techniques,

and substantive knowledge of the branches of the field, e.g., physical anthropology, social and cultural anthropology, ethnology, archaeology, linguistics, and applied anthropology. (See Sociology for more information.)

Major Requirements

A minimum of 36 credits in anthropology and sociology, 28 of which must be in courses above 1xxx, including:

Anth 1111—Introductory Cultural Anthropology

Anth 2101—Physical Anthropology

Anth 3411—Seminar in Anthropological Methodology

Anth 4901—Seminar in Anthropological Theory

Anth 4902—Senior Seminar

One course from:

Anth 3301—India and South Asia

Anth 3402—American Indian Ethnography

Anth 3451—Contemporary American Indians

Anth 3452—American Indian Women

Anth 3601—Social Change and Development in Latin America

Anth 3602—Women in Latin America

Students develop a coherent program of study in consultation with their major adviser generally no later than the spring semester of their sophomore year. Up to four credits of D+ or D may be used to meet the major requirements if offset by a sufficient number of higher grades to meet the minimum requirement of a cumulative GPA of 2.33 in all courses included in the major. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Minor Requirements

A minimum of 24 credits in anthropology and sociology, 16 of which must be in courses above 1xxx, including:

Anth 1111—Introductory Cultural Anthropology

Anth 2101—Physical Anthropology

Anth 3411—Seminar in Anthropological Methodology

Up to four credits of D+ or D may be used to meet the minor requirements if offset by a sufficient number of higher grades to meet the minimum requirement of a cumulative GPA of 2.33 in all courses included in the minor. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Note: Anth 3204, 3451, 3452, 3601, and 3602 may also be taken for credit in sociology.

Anth 1111. Introductory Cultural Anthropology. (SS; 4 cr; fall, spring, every year)

Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

Anth 1993. Directed Study.

(1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular Anthropology curriculum. Topic determined by the student and instructor.

Anth 2101. Physical Anthropology. (Sci-L; 4 cr; A-F only; fall, every year)

Prehistoric human life and culture. Processes of human evolution. The fossil record linking anatomically modern humans with our earliest hominoid ancestors. Human and other primate evolution and genetics. Includes a 90-minute lab session to be scheduled.

Anth 2311. American Indians of the Great Plains: Victims and Victors. (HDiv; 4 cr; =[Engl 2311]; offered when feasible; summer)

Same as Engl 2311. Government efforts to “civilize” American Indians and Indians’ resistance to these efforts. Course materials address indigenous opposition to the government’s assimilating forces. Travel to important sites of American Indian resistance on the Great Plains. [Continuing Education course]

Anth 2501. Medical Anthropology—An Overview. (SS; 4 cr; prereq 1111 or Soc 1101 or #; spring, even years)

Utilizes an ecological perspective to explore cultural understandings of health and illness in a variety of societies in North America and abroad. Examines the effects of cultural and physical adaptation, nutrition, culture contact, and modernization on the health and well being of people.

Anth 2993. Directed Study.

(1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

Anth 3101. The Anthropology of Religion. (SS; 4 cr; prereq 1111 or Soc 1101 or #; 4 addtl cr in Anth or Soc recommended; fall, every year)

Comparative study of religion, magic, witchcraft, etc., in various parts of world. Theories and concepts developed by anthropologists in dealing with religious phenomena in a cross-cultural perspective.

Anth 3201. Cases of Extreme Inequality. (IP; 4 cr; prereq 1111 or Soc 1101, one addtl Anth or Soc course 2xxx or above or #; spring, odd years)

Examines the effect of the interaction of human groups with their extant technologies and their physical, social, and cultural environments, focusing particularly on how this interaction affects social inequality, especially such extreme forms of contemporary social inequality as slavery and bonded labor, forced prostitution, infanticide due to poverty, and genocide. The intra- and international effects on same.

Division Structure and Course Descriptions

Anth 3202. Culture and Biology. (Envt; 4 cr; prereq 1111 or Soc 1101 or #; spring, every year)

Examines the interrelationships between biology and culture, using various cultures in the ethnographic record to assess the applicability of a range of biologically inspired hypotheses for aspects of human behavior and intelligence. The nature-nurture debate.

Anth 3204. Culture, Food, and Agriculture. (Envt; 4 cr; =[Soc 3204]; prereq 1111 or Soc 1101 or #; spring, even years)

Same as Soc 3204. Examines the globalization of food systems utilizing the political ecology of food to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

Anth 3301. India and South Asia. (IP; 4 cr; prereq 1111 or Soc 1101 or #; spring, every year)

Examination of the cultures and societies of several South Indian countries with a primary focus on India. Topics include a brief history, economic and social issues and conditions, marriage and kinship practices, religions, regional differences, regional and international conflicts, and cultural and social change.

Anth 3402. American Indian Ethnography. (HDiv; 4 cr; prereq 1111 or Soc 1101; fall, even years)

An analysis of ethnographic and ethnohistoric materials focusing on specific American Indian cultures.

Anth 3411. Seminar in Anthropological Methodology. (E/CR; 4 cr; prereq 1111 or Soc 1101, 4 addtl cr in Anth or Soc; fall, every year)

Exploration and evaluation of methods used in cultural anthropology, qualitative methods, research ethics, and design of qualitative research project.

Anth 3451. Contemporary American Indians. (HDiv; 4 cr; =[Soc 3451]; prereq 1111 or Soc 1101 or #; fall, odd years)

Same as Soc 3451. The cultures of contemporary Indian tribes in the United States. Government policies, gaming, urban populations, education, self-determination, and identity.

Anth 3452. American Indian Women. (HDiv; 4 cr; =[Soc 3452]; prereq 1111 or Soc 1101 or #; fall, every year)

Same as Soc 3452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Anth 3601. Social Change and Development in Latin America. (IP; 4 cr; =[Soc 3601]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3601. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Anth 3602. Women in Latin America. (IP; 4 cr; =[Soc 3602]; prereq 1111 or Soc 1101 or #; fall, odd years)

Same as Soc 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women's movements, economic and political conditions, religion and women, etc.

Anth 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

Anth 4901. Seminar in Anthropological Theory. (4 cr; prereq 1111 or Soc 1101, 4 addtl cr in Anth or Soc; fall, every year)

Survey of the historical development and major contemporary fields of anthropological theory.

Anth 4902. Senior Seminar. (4 cr; prereq 3411, prereq or coreq 4901; A-F only; spring, every year)

Seminar to guide anthropology majors in the completion of a directed study project; selection, definition, and execution of research project. Completion of seminar with research paper and public presentation of research results.

Anth 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular anthropology curriculum. Topic determined by the student and instructor.

Art History (Arth)

This discipline is in the Division of the Humanities. Art history involves the study of ways the visual arts reflect and shape the world's cultures.

Objectives—The purposes of the art history curriculum are to develop students' understanding of some of the historical traditions in the visual arts, to teach students methods of analysis and interpretation of works of art, and to help students discover the rich and complex relationship of art to other aspects of culture. Students are encouraged to have direct contact with art by means of studio art courses, class field trips, gallery internships, and study abroad experiences.

Major Requirements

Arth 1101—Principles of Art

Arth 1111—Ancient and Medieval Art

Arth 1121—Renaissance to Modern Art

ArtS 1101—Basic Studio Drawing I

ArtS 1102—Basic Studio Drawing II

ArtS 1103—Basic Studio 2-D Design

ArtS 1104—Basic Studio 3-D Design

ArtS 1105—Basic Studio Discussion I

ArtS 1106—Basic Studio Discussion II

and 24 additional credits in art history

No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Minor Requirements

Arth 1101—Principles of Art

Arth 1111—Ancient and Medieval Art

Arth 1121—Renaissance to Modern Art
and 12 additional credits in art history

No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Course Descriptions

Arth 1101. Principles of Art. (FA; 4 cr; fall, spring, every year)
An introduction to the theories, methods, and vocabulary of art history. Involves development of basic skills of research, analysis, and interpretation of individual works of art. Helps the student to understand the intrinsic as well as the historical-cultural meanings of works of art.

Arth 1111. Ancient to Medieval Art. (FA; 4 cr; offered when feasible; fall)
Origins of art in the Paleolithic period; survey of monuments of ancient Mesopotamia, Egypt, Greece, and Rome as well as the Early Christian, Romanesque, and Gothic styles of western Europe. Also treatment of non-western traditions in ancient and medieval periods.

Arth 1121. Renaissance to Modern Art. (FA; 4 cr; spring, every year)
Survey of the major works of art of western Europe and the United States from 1400 to the present.

Arth 3101. Art and Archaeology of Ancient Greece. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; offered when feasible; fall, spring)
Beginning with the Bronze Age civilization of the Aegean, Minoan, Cycladic, and Mycenaean, this course follows the development of painting, sculpture, and architecture of ancient Greece, concentrating on the classical period in Athens and the Hellenistic period in the Mediterranean.

Arth 3111. Art and Archaeology of Ancient Rome. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)
In-depth study of Roman art and archaeology beginning with the Villanovans and Etruscans who preceded the Romans and ending with the rise of Early Christian art. Concentration on the public and political art of the various emperors.

Arth 3112. Art and the Byzantine Empire. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)
A chronological and sociopolitical exploration of the development of art within the Byzantine Empire. The various roles that this art took within and beyond the borders of Byzantium.

Arth 3113. Islamic Art and Culture. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)
An investigation of Islamic art and architecture in both the secular and religious realm. Examination of these works in the context of the cultures and historical periods that produced them. Begins with the birth of Islamic art and continues up until today.

Arth 3121. Medieval Italian Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

Painting, sculpture, and architecture of Italy, notably Tuscany, from the 12th to 14th centuries, with attention to the influence of the mendicant monastic orders of the Franciscans and the Dominicans and the growth of the town on the art of the period.

Arth 3142. Art of the Italian Renaissance, 1300-1520. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

A variety of methods (including stylistic, gender, and contextual theories) are used to explore the painting and sculpture of such artists as Giotto, Donatello, Leonardo, Raphael, and Michelangelo.

Arth 3161. 16th-Century Italian Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

The stylistic and theoretical differences evidenced in the fascinating trends of Mannerism and Venetian Renaissance art.

Arth 3171. Baroque Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

A sociohistorical consideration of the stylistic and thematic diversity present in the works of such 17th-century masters as Caravaggio, Bernini, Velazquez, Rembrandt, and Vermeer.

Arth 3191. American Art to 1900. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

A thematic exploration of the role of painting, sculpture, and the decorative arts in American society, from colonial times to 1900. Topics include the landscape and Manifest Destiny, American icons, folk art, and the representation of American Indians, African Americans, and women.

Arth 3201. 19th-Century European Art through Post-Impressionism. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

Survey of major movements from Neoclassicism through Romanticism, Realism, and Impressionism to Post-Impressionism. Attention is given to iconographical and formal analysis as well as to the social conditions in which artists lived and worked.

Arth 3211. Early Modernist Art: Symbolism to Surrealism. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

Survey of the major early modernist movements from Symbolism through Cubism, Futurism, Expressionism, Constructivism, De Stijl, and the Bauhaus to Surrealism. Attention is given to theories of modern art as well as to formal and iconographical analyses and to the social conditions in which modern art was created and experienced.

Arth 3221. 20th-Century American Art: 1945 to the Present. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)

An examination of selected artists and movements from the 1940s through the present. Equal emphasis is given to the art and the social context in which it was made and experienced, and to modernist and postmodernist aesthetic and critical thought.

Arth 3231. History of Photography. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

Survey of European and American photography from the period of invention to the present. Major artists and movements are examined in the context of a variety of aesthetic, social, and technical issues.

Division Structure and Course Descriptions

Arth 3241. African American Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, even years)

Survey of African American art from colonial times to the present, focusing on social context and aesthetic and biographical issues.

Arth 3261. Chinese Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

Survey of Chinese arts from the Neolithic times to the 20th century, presented in the context of Chinese culture.

Arth 3281. Women and Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

A historical survey of women's roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

Arth 3291. Facing the Past: Portraiture and Social History. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, spring)

This seminar examines functions and formats of portraits created primarily in Western Europe between 1400–1800, in order to gain greater insight as to how various social identities (such as that of husband and wife, child, friend, and freak of nature) were visually constructed and verbally interpreted.

Arth 3311. Italian Renaissance and Baroque Art in Context.

(1 cr; offered when feasible; spring)

An opportunity to view and interpret art of the Renaissance and Baroque periods (c. 1400–1700) in its original contexts in Italy and to better comprehend how powerfully art can affect a viewer. [Continuing Education course]

Arth 3993. Directed Study. (1–5 cr [max 10 cr]; prereq any 1xxx Arth course or jr status, approved directed study form; fall, spring, every year)

Content and nature of the course to be determined by faculty and student consultation. May include individual research and writing, working in relation to the Art Gallery program, or travel and study.

Arth 4901. Capstone Assessment of Student Experience in Art History.

(1 cr; prereq Arth major, #; S-N or Aud, fall, spring, every year)

Allows students majoring in art history to reflect on the connections among the different courses and experiences they have had in the discipline by compiling a portfolio of their work, writing a short paper, and discussing their experiences with the faculty and other majors.

Arth 4993. Directed Study. (1–5 cr [max 10 cr]; prereq any 1xxx Arth course or jr status, approved directed study form; fall, spring, every year)

Content and nature of the course to be determined by faculty and student consultation. May include individual research and writing, working in relation to the Art Gallery program, or travel and study.

Art, Studio (Arts)

This discipline is in the Division of the Humanities. Studio art includes studies in the traditional areas of the visual arts as well as in contemporary concerns and techniques. Students are introduced to the skills of critical analysis of works of art and to a variety of media and approaches to their use. In addition, the discipline supports cocurricular activities, including the UMM Student Art Club, student exhibitions, and guest speakers.

Objectives—The goal of the studio art curriculum is to introduce students to the technical, conceptual, and communication skills necessary for activities in the visual arts and to help students understand the major traditions and the cultural significance of the visual arts. Studio courses serve the needs of students planning to pursue graduate studies in art, students interested in exploring their own creative potential as part of their general education, and students preparing for secondary school teaching.

Major Requirements

First Term of Basic Studio

Take all of the following in the same term:

ArtS 1101—Basic Studio Drawing I, ART/P (2 cr)

ArtS 1103—Basic Studio 2-D Design, ART/P (2 cr)

ArtS 1105—Basic Studio Discussion I, ART/P (1 cr)

Second Term of Basic Studio

Take all of the following in the same term:

ArtS 1102—Basic Studio Drawing II, ART/P (2 cr)

ArtS 1104—Basic Studio 3-D Design, ART/P (2 cr)

ArtS 1106—Basic Studio Discussion II, ART/P (1 cr)

Second Year Drawing

ArtS 2101—Drawing From Life I, ART/P (3 cr)

ArtS 2102—Drawing From Life II, ART/P (3 cr)

Concentrated Studio Arts Courses

First Medium:

Printmaking – 12 credits

ArtS 2201—Beginning Printmaking I, ART/P (3 cr)

ArtS 2202—Beginning Printmaking II, ART/P (3 cr)

ArtS 3200—Advanced Printmaking I, ART/P (3 cr)

ArtS 3210—Advanced Printmaking II, ART/P (3 cr)

or Painting – 12 credits

ArtS 2301—Beginning Painting I, ART/P (3 cr)

ArtS 2302—Beginning Painting II, ART/P (3 cr)

ArtS 3300—Advanced Painting I, ART/P (3 cr)

ArtS 3310—Advanced Painting II, ART/P (3 cr)

or **Sculpture** – 12 credits

- ArtS 2401—Beginning Sculpture I, ART/P (3 cr)
- ArtS 2402—Beginning Sculpture II, ART/P (3 cr)
- ArtS 3400—Advanced Sculpture I, ART/P (3 cr)
- ArtS 3410—Advanced Sculpture II, ART/P (3 cr)

or **Ceramics** – 12 credits

- ArtS 1050—Beginning Ceramics, ART/P (3 cr)
- ArtS 2050—Advanced Ceramics, ART/P (3 cr, repeat to 9 cr)

or **Drawing** – 12 credits

- ArtS 3100—Advanced Drawing I, ART/P (3 cr, repeat to 6 cr)
- ArtS 3110—Advanced Drawing II, ART/P (3 cr, repeat to 6 cr)

or **Photography/Digital Imaging** – 12 credits

- ArtS 2500—Photography, ART/P (3 cr, repeat to 6 cr)
- ArtS 3005—Media Studies: Digital Imaging, ART/P (3 cr, repeat to 6 cr)

Second Medium:

The medium chosen must be different from first medium

Printmaking – 6 credits

- ArtS 2201—Beginning Printmaking I, ART/P (3 cr)
- ArtS 2202—Beginning Printmaking II, ART/P (3 cr)

or **Painting** – 6 credits

- ArtS 2301—Beginning Painting I, ART/P (3 cr)
- ArtS 2302—Beginning Painting II, ART/P (3 cr)

or **Sculpture** – 6 credits

- ArtS 2401—Beginning Sculpture I, ART/P (3 cr)
- ArtS 2402—Beginning Sculpture II, ART/P (3 cr)

or **Ceramics** – 6 credits

- ArtS 1050—Beginning Ceramics, ART/P (3 cr)
- ArtS 2050—Advanced Ceramics, ART/P (3 cr)

or **Drawing** – 6 credits

- ArtS 3100—Advanced Drawing I, ART/P (3 cr)
- ArtS 3110—Advanced Drawing II, ART/P (3 cr)

or **Photography/Digital Imaging** – 6 credits

- ArtS 2500—Photography, ART/P (3 cr)
- ArtS 3005—Media Studies: Digital Imaging, ART/P (3 cr)

Electives, Reviews, and Exhibit

Take 3 or more credits from the following:

- ArtS 2xxx
- ArtS 3xxx
- ArtS 4xxx

ArtS 4902

ArtS 4903

Take 12 or more credits from the following:

- ArtH 1xxx
- ArtH 3xxx

No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A

minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced. Studio courses are assessed an individual lab fee.

Minor Requirements

Basic Studio Art Requirement

Take all of the following in the same term:

- ArtS 1101—Basic Studio Drawing I, ART/P (2 cr)
- ArtS 1103—Basic Studio 2-D Design, ART/P (2 cr)
- ArtS 1105—Basic Studio Discussion I, ART/P (1 cr)

Take all of the following in the same term:

- ArtS 1102—Basic Studio Drawing II, ART/P (2 cr)
- ArtS 1104—Basic Studio 3-D Design, ART/P (2 cr)
- ArtS 1106—Basic Studio Discussion II, ART/P (1 cr)

Concentrated Studio Arts Courses

Complete one 12-credit sequence in one major medium or two 6-credit sequences in different media (select from Printmaking, Painting, Sculpture, Drawing, or Photography/Digital Imaging)

A single 12-credit sequence:

Printmaking – 12 credits

- ArtS 2201—Beginning Printmaking I, ART/P (3 cr)
- ArtS 2202—Beginning Printmaking II, ART/P (3 cr)
- ArtS 3200—Advanced Printmaking I, ART/P (3 cr)
- ArtS 3210—Advanced Printmaking II, ART/P (3 cr)

or **Painting** – 12 credits

- ArtS 2301—Beginning Painting I, ART/P (3 cr)
- ArtS 2302—Beginning Painting II, ART/P (3 cr)
- ArtS 3300—Advanced Painting I, ART/P (3 cr)
- ArtS 3310—Advanced Painting II, ART/P (3 cr)

or **Sculpture** – 12 credits

- ArtS 2401—Beginning Sculpture I, ART/P (3 cr)
- ArtS 2402—Beginning Sculpture II, ART/P (3 cr)
- ArtS 3400—Advanced Sculpture I, ART/P (3 cr)
- ArtS 3410—Advanced Sculpture II, ART/P (3 cr)

or **Ceramics** – 12 credits

- ArtS 1050—Beginning Ceramics, ART/P (3 cr)
- ArtS 2050—Advanced Ceramics, ART/P (3 cr, repeat to 9 cr)

or **Drawing** – 12 credits

- ArtS 3100—Advanced Drawing I, ART/P (3 cr, repeat to 6 cr)
- ArtS 3110—Advanced Drawing II, ART/P (3 cr, repeat to 6 cr)

or **Photography/Digital Imaging** – 12 credits

- ArtS 2500—Photography, ART/P (3 cr, repeat to 6 cr)
- ArtS 3005—Media Studies: Digital Imaging, ART/P (3 cr, repeat to 6 cr)

Division Structure and Course Descriptions

OR two 6-credit sequences:

Choose two different media for this option.

Printmaking – 6 credits

ArtS 2201—Beginning Printmaking I, ART/P (3 cr)

ArtS 2202—Beginning Printmaking II, ART/P (3 cr)

or **Painting – 6 credits**

ArtS 2301—Beginning Painting I, ART/P (3 cr)

ArtS 2302—Beginning Painting II, ART/P (3 cr)

or **Sculpture – 6 credits**

ArtS 2401—Beginning Sculpture I, ART/P (3 cr)

ArtS 2402—Beginning Sculpture II, ART/P (3 cr)

or **Ceramics – 6 credits**

ArtS 1050—Beginning Ceramics, ART/P (3 cr)

ArtS 2050—Advanced Ceramics, ART/P (3 cr)

or **Drawing – 6 credits**

ArtS 3100—Advanced Drawing I, ART/P (3 cr)

ArtS 3110—Advanced Drawing II, ART/P (3 cr)

or **Photography/Digital Imaging – 6 credits**

ArtS 2500—Photography, ART/P (3 cr)

ArtS 3005—Media Studies: Digital Imaging, ART/P (3 cr)

Additional Courses

ArtS 2101—Drawing from Life I, ART/P (3 cr)

ArtS 2102—Drawing from Life II, ART/P (3 cr)

No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced. Studio courses are assessed an individual lab fee.

Teacher Preparation Requirements

Students seeking teaching licensure in visual arts K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

ArtS 1001. Visual Studies for Non-Majors: Drawing. (ArtP; 3 cr [max 6 cr]; no elective or for ArtS majors or minors; offered when feasible; fall, spring)

Exploration of observational drawing skills through line work in contour and gesture, continuing with studies in value, texture, and space. Contemporary and traditional modes of drawing explored using a variety of materials. For nonmajors with little or no experience in drawing.

ArtS 1002. Visual Studies for Non-Majors: Digitally Assisted Design. (ArtP; 3 cr [max 6 cr]; no elective or for ArtS majors or minors; fall, spring)

Development of skills necessary to produce digital imagery, including fundamental aesthetic concerns (composition, color theory, mark-making, etc.) and knowledge of digital media with emphasis on the technical, conceptual, aesthetic, and ethical aspects of digital imaging as an artistic medium.

ArtS 1003. Visual Studies for Non-Majors: Beginning Painting.

(ArtP; 3 cr [max 6 cr]; no elective or for ArtS majors or minors; fall, spring)

The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems. For nonmajors with little or no previous experience in painting.

ArtS 1004. Visual Studies for Non-Majors: Printmaking. (ArtP; 3 cr [max 6 cr]; no elective or for ArtS majors or minors; offered when feasible; fall, spring)

Development of skills necessary to produce imagery using printmaking as a means of expression, including the development of fundamental aesthetic concerns (composition, color theory, mark-making, etc.). For nonmajors with little or no studio experience.

ArtS 1005. Visual Studies for Non-Majors: Photography. (ArtP; 3 cr [max 6 cr]; no elective or for ArtS majors or minors; offered when feasible; fall, spring)

Development of skills necessary to produce imagery using black and white photography as a means of expression, including an introduction to processes, materials, brief history, and critical skills to evaluate photographs. Students must provide their own 35 mm cameras. For nonmajors with little or no studio experience.

ArtS 1039. Ceramics I. (ArtP; 3 cr; offered when feasible; fall, spring)

Exploration in personal expression through the medium of clay. Emphasis is on handbuilding and throwing techniques using stoneware and porcelain. Other topics include clay types and their origin, decorating with slips and glazes, basic firing principles, and the role of the potter in society. [Continuing Education course]

ArtS 1040. Ceramics II. (ArtP; 3 cr [max 9 cr]; prereq 1039 or 1050; offered when feasible; fall, spring)

Ceramics II is intended for any student who has taken either Ceramics I or has a working knowledge of basic forming and glazing techniques. Students are expected to work toward higher standards of both technique and design. Assigned topics for this course may vary from semester to semester. [Continuing Education course]

ArtS 1050. Beginning Ceramics. (ArtP; 3 cr [max 6 cr]; fall, every year)

Personal expression through the medium of clay. Topics include forming methods using stoneware and porcelain (hand building and wheel techniques), glazing, the nature of clay, glaze chemistry, firing, and kilns.

ArtS 1101 through 1106. Basic Studio. (Coreq 1101, 1103, 1105 in fall or coreq 1102, 1104, 1106 in spring; one 1xxx ArtH course recommended during the same year)

Preparation for advanced work in studio art; four related parts must be taken concurrently and in sequence.

Basic Studio Drawing: basic exercises of drawing, use and exploration of materials and methods in line and form development, problems of spatial representation.

Basic Studio 2-D Design: elements of two-dimensional design and color theory, introduction to painting and printmaking.

Basic Studio 3-D Design: elements of three-dimensional design, introduction to sculpture.

Basic Studio Discussion: theories, philosophy, history of visual arts, contemporary trends in art, selected readings.

ArtS 1101. Basic Studio Drawing I. (ArtP; 2 cr; coreq 1103, 1105; one 1xxx ArtH course recommended during the same year; fall, every year)

Preparation for advanced work in studio art. Basic exercises of drawing, use and exploration of materials

and methods in line and form development, problems of spatial representation.

Arts 1102. Basic Studio Drawing II. (ArTP; 2 cr; prereq 1101, coreq 1104, 1106; one 1xxx Arth course recommended during the same year; spring, every year)

Preparation for advanced work in studio art. Basic exercises of drawing, use and exploration of materials and methods in line and form development, problems of spatial representation.

Arts 1103. Basic Studio 2-D Design. (ArTP; 2 cr; coreq 1101, 1105; one 1xxx Arth course recommended during the same year; fall, every year)

Preparation for advanced work in studio art. Elements of two-dimensional design and color theory, introduction to painting and printmaking.

Arts 1104. Basic Studio 3-D Design. (ArTP; 2 cr; prereq 1103, coreq 1102, 1106; one 1xxx Arth course recommended during the same year; spring, every year)

Preparation for advanced work in studio art. Elements of three-dimensional design, introduction to sculpture.

Arts 1105. Basic Studio Discussion I. (ArTP; 1 cr; coreq 1101, 1103; one 1xxx Arth course recommended during the same year; fall, every year)

Preparation for advanced work in studio art. Theories, philosophy, history of visual arts, contemporary trends in art, selected readings.

Arts 1106. Basic Studio Discussion II. (ArTP; 1 cr; prereq 1105, coreq 1102, 1104; one 1xxx Arth course recommended during the same year; spring, every year)

Preparation for advanced work in studio art. Theories, philosophy, history of visual arts, contemporary trends in art, selected readings.

Arts 1300. Watercolor Painting. (ArTP; 3 cr; offered when feasible; fall, spring)

An introduction to various painting techniques in watercolor. [Continuing Education course]

Arts 1500. Beginning Photography. (ArTP; 3 cr [max 6 cr]; fall, spring, every year)

This course is intended for the general student with little or no previous experience in artistic expression. It is an introduction to black and white photography as an art form including processes, materials, brief history, and critical skills to evaluate photographs. Students must provide their own 35 mm cameras. [Continuing Education course]

Arts 2050. Advanced Ceramics. (ArTP; 3 cr [max 9 cr]; prereq 1050 or #; offered when feasible; fall, spring)

For students who have a working knowledge of basic forming and glazing techniques. Emphasis on advanced hand building and wheel techniques, critiques, glaze experiments, and firing. Assigned projects for the course may vary from semester to semester.

Arts 2101. Drawing from Life I. (ArTP; 3 cr; prereq major or minor or #; fall, every year)

Via the study of human anatomy, the course increases and improves students' knowledge and skill in drawing as a traditional art form and as a preparation for work in other media.

Arts 2102. Drawing from Life II. (ArTP; 3 cr; prereq 2101 recommended; spring, every year)

Allows students to use skills previously gained that relate to drawing the human form in a more individual way, integrates those skills with new ideas, and explores experimental drawing directions.

Arts 2201. Beginning Printmaking I. (ArTP; 3 cr; prereq major or minor or # for nonmajor jrs and srs; fall, every year)

Study of and practice in various methods of printmaking: application of drawing skills, color, composition, and personal expression to printmaking techniques.

Arts 2202. Beginning Printmaking II. (ArTP; 3 cr; prereq 2201; spring, every year)

Study of and practice in various methods of printmaking: application of drawing skills, color, composition, and personal expression to printmaking techniques.

Arts 2301. Beginning Painting I. (ArTP; 3 cr; prereq major or minor or # for nonmajor jrs and srs; fall, spring, every year)

The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems.

Arts 2302. Beginning Painting II. (ArTP; 3 cr; prereq major or minor or # for nonmajor jrs and srs; spring, every year)

The development of painting as a means of artistic expression including basic technical, material, and formal compositional problems.

Arts 2401. Beginning Sculpture I. (ArTP; 3 cr; prereq major or minor or # for nonmajor jrs and srs; fall, every year)

Exploration of sculpture as a means of artistic expression, including an introduction to the planning and construction of three-dimensional forms using both traditional and contemporary techniques. A two-semester sequence provides experience with a variety of materials.

Arts 2402. Beginning Sculpture II. (ArTP; 3 cr; prereq 2401; spring, every year)

Exploration of sculpture as a means of artistic expression, including an introduction to the planning and construction of three-dimensional forms using both traditional and contemporary techniques. A two-semester sequence provides experience with a variety of materials.

Arts 2500. Photography. (ArTP; 3 cr [max 9 cr]; prereq major or minor or #; offered when feasible; fall, spring)

Introduction to photography as an art medium. Composition and artistic expression explored through basic photographic techniques. Must have a 35 mm camera.

Media Studies: Courses numbered 30xx explore areas of special interest or timeliness not covered by the regular curriculum.

Arts 3001. Media Studies: Public Space, Installation Art, and New Media. (ArTP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)

Discussion and production of installation and public art. Each student completes three large-scale art projects and one final collaborative installation that is exhibited in the HFA Gallery. Includes exploration of interior space, exterior space, video art, and other contemporary media.

Arts 3002. Media Studies: Artist's Books. (ArTP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)

Personal expression through artist's books. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

Arts 3003. Media Studies: Tilemaking. (ArTP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)

A hands-on exploration of the rich history of functional and decorative tile, including mosaics. Students design and build their own ceramic tile, which is, after firing,

Division Structure and Course Descriptions

used to construct tabletops and wall-hung murals. A low-fire clay body, as well as stoneware and porcelain, is available for tile construction.

Arts 3004. Media Studies: Mural Project and Public Art. (ArtP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)
Understanding and exploration of contemporary mural art through reading, writing, and production of art. Collaborative production of a large-scale painted mural in a public setting. Designed for students who have a working knowledge of the basic principles and skills of art such as drawing, 2D and 3D design, composition, and color theory.

Arts 3005. Media Studies: Digital Imaging. (ArtP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)
Introduction to the technical, conceptual, aesthetic, and ethical aspects of using the computer to make art. Exploration of digital media software, Web research, scanning, color printing, and digital photography; consideration of the issues facing artists and the art world in the area of digital imaging.

Arts 3006. Media Studies: Feminist Art: A Studio Perspective. (ArtP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)
The impact of the women's movement of the 1970s on contemporary art. Exploration of the notion of "women's work" as a studio practice; the materials, methods, and issues that define feminist work.

Arts 3007. Media Studies: Printmaking. (ArtP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)
Study of and practice in various contemporary methods of printmaking: application of drawing skills, color, composition, and personal expression to alternative printmaking techniques.

Arts 3008. Media Studies: Woodfired Kiln Design and Construction. (ArtP; 3 cr [max 9 cr]; prereq 1101-1106 [10 cr] or #; fall, spring)
Design and construction of a woodfired kiln capable of firing stoneware and porcelain. Examination and critique of historical and contemporary woodfired kiln designs.

Arts 3012. Media Studies: Ceramics. (ArtP; 3 cr [max 9 cr]; prereq major or minor in Arts; offered when feasible; fall, spring)
Study of and practice in specialized methods and techniques in ceramics not covered under the regular curriculum.

Arts 3013. Media Studies: Painting. (ArtP; 3 cr [max 9 cr]; prereq Arts major or minor; offered when feasible; fall, spring)
Study of and practice in various contemporary methods in painting: application of drawing skills, color, composition, and personal expression to alternative painting techniques.

Arts 3100. Advanced Drawing I. (ArtP; 3 cr [max 9 cr]; prereq 2101, 2102 recommended; fall, every year)
Continued development of the skills and understandings required by traditional problems of drawing.

Arts 3110. Advanced Drawing II. (ArtP; 3 cr [max 9 cr]; prereq 2101, 2102; 3100 recommended; spring, every year)
Emphasizes self-direction, experimental approaches and materials, and study of contemporary concepts.

Arts 3200. Advanced Printmaking I. (ArtP; 3 cr [max 9 cr]; prereq 2202; fall, every year)
Further exploration of printmaking techniques and skills as a means of artistic expression. Students may register for either semester; however, a year's continuous work is recommended.

Arts 3210. Advanced Printmaking II. (ArtP; 3 cr [max 9 cr]; prereq 2202; spring, every year)
Further exploration of printmaking techniques and skills as a means of artistic expression. Students may register for either semester; however, a year's continuous work is recommended.

Arts 3300. Advanced Painting I. (ArtP; 3 cr [max 9 cr]; prereq 2302 or #; fall, every year)
Further development of painting as a means of artistic expression. Students may register for either semester; however, a year's continuous work is recommended.

Arts 3310. Advanced Painting II. (ArtP; 3 cr [max 9 cr]; prereq 2302 or #; spring, every year)
Further development of painting as a means of artistic expression. Students may register for either semester; however, a year's continuous work is recommended.

Arts 3400. Advanced Sculpture I. (ArtP; 3 cr [max 9 cr]; prereq 2402; fall, every year)
Further development of sculpture as a means of artistic expression. Students may register for either semester; however, a year's continuous work is recommended.

Arts 3410. Advanced Sculpture II. (ArtP; 3 cr [max 9 cr]; prereq 2402; spring, every year)
Further development of sculpture as a means of artistic expression. Students may register for either semester; however, a year's continuous work is recommended.

Arts 3993. Directed Study. (1-5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Arts 4881. Senior Review. (0 cr; prereq sr studio art major; S-N only; fall, every year)
Review by the studio art and art history faculty of the student's work, concentrating on the major media and including any work designated at the Junior Review. Time of review and work presented decided in consultation with the adviser and the instructor of the major studio area. Normally taken fall semester.

Arts 4901. Senior Exhibit. (0 cr; prereq sr studio art major or minor; S-N only; spring, every year)
Students consult with their adviser and the faculty member facilitating the exhibit for details.

Arts 4902. Senior Thesis Project I. (2 cr; prereq senior Arts major, completion of Second Year Portfolio Review; A-F only; fall, every year)

A two-semester sequential capstone course for majors, with a focus on the planning and preparation of a senior exhibit and the investigation of other professional skills. Group seminars include portfolio presentation, framing, interviewing, grant writing, and graduate school application. Individual creative research projects focus on development of a thesis and slide talk to accompany the final body of work exhibited in the HFA Gallery during the spring semester. Students participate in a

portfolio review by the studio art and art history faculty, concentrating on work from the major medium and other work completed since the Second-Year Portfolio Review. Time of the review is arranged through the discipline coordinator.

Arts 4903. Senior Thesis Project II. (1 cr; prereq 4902; A-F only; spring, every year)

A two-semester sequential capstone course for majors, with a focus on the planning and preparation of a senior exhibit and investigation of other professional skills. Students continue to develop and refine the thesis, slide lecture, and install work in the HFA Gallery during the spring semester for the Senior Exhibit.

Arts 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Biology (Biol)

This discipline is in the Division of Science and Mathematics.

Objectives—The biology curriculum is designed to provide students with biological knowledge and to develop scientific skills as part of their liberal arts education. Included in those skills are the abilities to conduct and interpret scientific research and to successfully communicate scientific information both verbally and in writing. The faculty believe these objectives can best be attained through a balanced core curriculum in biology and a diverse array of elective coursework, both of which include active lab and field experiences. The biology major prepares students for graduate or professional programs and for careers such as secondary biology education, government service, or private sector employment. The biology discipline also offers a variety of 10xx courses that are designed specifically for students seeking to fulfill general education requirements in science.

Major Requirements

Required Courses

Biol 1111—Fundamentals of Genetics, Evolution, and Development, Sci (3 cr)
 Biol 2101—Evolution of Biodiversity, Sci-L (4 cr)
 Biol 2111—Cell Biology, Sci-L (4 cr)
 Biol 3121—Molecular Biology, Sci-L (5 cr)
 Biol 3131—Ecology, Sci-L (4 cr)
 Biol 3700—Biological Communication I (1 cr)
 Biol 3701—Biological Communication II (1 cr)
 Biol 4901—Senior Seminar (1 cr)
 Chem 1101—General Chemistry I, Sci-L (4 cr)
 Chem 1102—General Chemistry II, Sci-L (4 cr)

Chem 2301—Organic Chemistry I, Sci (4 cr)
 Chem 2302—Organic Chemistry II, Sci (4 cr)
 Chem 2311—Organic Chemistry Lab I (1 cr)
 Math 1021—Survey of Calculus, M/SR (4 cr)
 or Math 1101—Calculus I, M/SR (5 cr)
 Stat 1601—Introduction to Statistics, M/SR (4 cr)
 or Stat 2601—Statistical Methods, M/SR (4 cr)

Elective Courses

Take 16 or more credit(s) from the following:

Organismal Electives

Take 1 or more course(s) from the following:

Biol 4111—Microbiology, Sci-L (4 cr)
 Biol 4121—Herpetology, Sci-L (4 cr)
 Biol 4131—Vertebrate Natural History, Sci-L (4 cr)
 Biol 4151—Entomology, Sci-L (4 cr)
 Biol 4161—Evolution, Sci (4 cr)
 Biol 4171—Plant Systematics and Evolution, Sci-L (4 cr)
 Biol 4301—Plant Biology, Sci-L (4 cr)

Non-Organismal Electives

Take 0 or more course(s) from the following:

Biol 4003—Neurobiology, Sci-L (4 cr)
 Biol 4102—Human Physiology, Sci (4 cr)
 Biol 4181—Developmental Biology, Sci-L (4 cr)
 Biol 4191—Freshwater Biology, Sci-L (4 cr)
 Biol 4211—Biochemistry, Sci (4 cr)
 Biol 4312—Genetics, Sci-L (4 cr)
 Biol 4321—Animal Physiology, Sci-L (4 cr)
 Biol 4331—Global Change Ecology, Sci (4 cr)
 Biol 4351—Conservation Biology, Sci-L (4 cr)

Other Electives

Take 0–1 course(s) from the following:

Psy 3211—Biological Psychology, Sci-L (5 cr)
 Psy 3201—Comparative Psychology, Sci-L (4 cr)
 Geol 3111—Introduction to Invertebrate Paleontology, Sci-L (4 cr)

Courses may not be taken S-N unless offered S-N only. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B in the major. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Biology majors are advised to complete their chemistry and mathematics requirements as early as possible. All majors should have their programs approved by a biology advisor by the beginning of their junior year.

Division Structure and Course Descriptions

Minor Requirements

Core Curriculum

Biol 1111—Fundamentals of Genetics, Evolution, and Development, Sci (3 cr)

Biol 2101—Evolution of Biodiversity, Sci-L (4 cr)

Biol 2111—Cell Biology, Sci-L (4 cr)

Chem 1101—General Chemistry I, Sci-L (4 cr)

Chem 1102—General Chemistry II, Sci-L (4 cr)

Elective Courses

Take 2 or more course(s) from the following:

Biol 3121—Molecular Biology, Sci-L (5 cr)

Biol 3131—Ecology, Sci-L (4 cr)

Biol 3701—Biological Communication II (1 cr)

Biol 4003—Neurobiology, Sci-L (4 cr)

Biol 4102—Human Physiology, Sci (4 cr)

Biol 4111—Microbiology, Sci-L (4 cr)

Biol 4121—Herpetology, Sci-L (4 cr)

Biol 4131—Vertebrate Natural History, Sci-L (4 cr)

Biol 4151—Entomology, Sci-L (4 cr)

Biol 4161—Evolution, Sci (4 cr)

Biol 4171—Plant Systematics and Evolution, Sci-L (4 cr)

Biol 4181—Developmental Biology, Sci-L (4 cr)

Biol 4191—Freshwater Biology, Sci-L (4 cr)

Biol 4211—Biochemistry, Sci (4 cr)

Biol 4301—Plant Biology, Sci-L (4 cr)

Biol 4312—Genetics, Sci-L (4 cr)

Biol 4321—Animal Physiology, Sci-L (4 cr)

Biol 4331—Global Change Ecology, Sci (4 cr)

Biol 4351—Conservation Biology, Sci-L (4 cr)

Or choose not more than one of the following non-biology electives:

Psy 3211—Biological Psychology, Sci-L (5 cr)

or Psy 3201—Comparative Psychology, Sci-L (4 cr)

or Geol 3111—Introduction to Invertebrate Paleontology, Sci-L (4 cr)

Courses required for the minor may not be taken S-N. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B in the minor. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in life science 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Biol 1001. Biological Rhythms. (Sci-L; 4 cr; no elective cr for biol majors or minors; offered when feasible; fall)

An examination of biological principles through the dimension of time. In particular, short to long cycling

behaviors in humans, microorganisms, and chemical systems are studied. (two 65-min lect, one 120-min lab)

Biol 1002. Human Nutrition. (Sci; 3 cr; no elective cr for biol majors or minors; spring, every year)

Nutrients essential to human life and well-being.

Digestion, absorption, and metabolism of nutrients.

Changes in metabolism during disease. Nutrients and their roles. Sports nutrition, weight loss/gain diets,

nutritional myths. (two 65-min lect)

Biol 1051. Wildlife Biology. (Sci-L; 4 cr; no elective cr for biol majors or minors; fall, even years)

Biological principles and practices illustrated through studies of North American wildlife. Wildlife taxonomy, identification, migration and dispersal, ecological relationships, contemporary problems associated with human activities. (two 65-min lect, one 120- or 180-min lab or field study)

Biol 1052. Introduction to Conservation Biology. (Sci-L; 4 cr; no elective cr for biol majors or minors; offered when feasible; spring)

Survey of topics in conservation biology, with emphasis on topics that have created controversy and debate: loss of biodiversity; endangered species preservation and management, habitat conservation, environmental degradation, and sustainable development. (two 65-min lect, one 120- or 180-min lab or field study)

Biol 1053. Introduction to Insect Biology. (Sci-L; 4 cr; no elective cr for biol majors or minors; summer, even years)

Basic concepts in insect biology including evolutionary history, life-cycles, classification, and ecology; examination of how insects and other arthropods interact with human society including insects as vectors of human disease, forensic entomology, insects in agriculture, beneficial uses of insects in the production of food and fiber, and insect-inspired art and literature. (three 75-min lect, two 165-min labs, one all-day field trip required in addition to labs) [Continuing Education course]

Biol 1071. Plants of Minnesota. (Sci-L; 4 cr; no elective cr for biol majors or minors; offered when feasible; summer)

Introduction to plant structure and function, especially those found in Minnesota: ecology, physiology, evolution, and conservation. Labs emphasize plant identification and anatomy.

Biol 1111. Fundamentals of Genetics, Evolution, and Development. (Sci; 3 cr; =[Biol 1101]; prereq biol major/minor or chem major or any health sciences preprofessional program or EIED or SeEd major with middle school science specialties or #; fall,

spring, every year)

Introduction to scientific methods and the history of biology, with an emphasis on mechanisms of inheritance, development, and descent with modification. Overview of pre-Darwinian scientific thought; the theory of evolution; a qualitative introduction to genetics and molecular biology; and a summary of developmental biology.

Biol 2101. Evolution of Biodiversity. (Sci-L; 4 cr; prereq 1101 or 1111 or #; spring, every year)

Analysis of evolutionary trends using historical and contemporary evidence. Principles of classification and phylogenetic reconstruction. Includes laboratory survey of the major groups of organisms. (two 65-min lect, one 180-min lab)

Biol 2102. Human Anatomy. (3 cr; =[WSS 2102]; prereq soph; fall, every year)

Same as WSS 2102. Structure of human systems at their organ and cellular level. (one 100-min lect, one 120-min lab)

Biol 2111. Cell Biology. (Sci-L; 4 cr; prereq 1101 or 1111, prereq or coreq Chem 1102 or #; fall, every year)

Cell structure and function. Includes topics pertaining to the chemistry, physiology, structure, and reproduction of plant and animal cells. (three 65-min lect and one 120-min lab)

Biol 3121. Molecular Biology. (Sci-L; 5 cr; prereq 2111, Chem 2301 or #; spring, every year)

Principles and mechanisms of DNA function, protein synthesis, and gene regulation in prokaryotes and eukaryotes. Genetic engineering and evolution at the molecular level. (two 100-min lect, 180-min lab)

Biol 3131. Ecology. (Sci-L; 4 cr; prereq 2101 or #; fall, every year)

Basic principles and models of population biology, community structure and function, and ecosystem dynamics. Lab exercises emphasize field work, techniques for characterizing local plant and animal communities, and experimental investigation of topics such as competition and behavioral ecology. (two 65-min lect, one 180-min lab and field study; weekend field trip required)

Biol 3700. Biological Communication I. (1 cr; prereq 2101, 2111; fall, spring, every year)

Finding and utilizing sources of biological information. Modern techniques for searching the biological literature, as well as reading and interpreting those sources. Principles and practices of writing in biology.

Biol 3701. Biological Communication II. (1 cr; prereq 3700, #; fall, spring, every year)

Preparation of an extensive literature review paper on a biological topic of the student's choice.

Biol 4003. Neurobiology. (Sci-L; 4 cr; prereq 2111; fall, odd years)

Survey of general principles of neuronal function and formation. Emphasis on comparative aspects of simple nervous systems.

Biol 4102. Human Physiology. (Sci; 4 cr; prereq 2111 or #; spring, even years)

Function of human systems at their organ, cellular and molecular levels. (three 65-min lect)

Biol 4111. Microbiology. (Sci-L; 4 cr; prereq 2111, prereq or coreq 3121 or #; spring, every year)

The biology of pathogenesis and the treatment and prevention of infectious disease. Emphasis on prokaryotic microbes and viruses. (two 65-min lect, one 180-min lab)

Biol 4121. Herpetology. (Sci-L; 4 cr; prereq 2101; spring, odd years)

Survey of amphibians and reptiles, including their evolution, systematics, identification, behavior, ecological relationships, and contemporary problems associated with human activities. (two 65-min lect, one 180-min lab and field studies)

Biol 4131. Vertebrate Natural History. (Sci-L; 4 cr; prereq 2101; fall, odd years)

Survey of vertebrates, including their evolution, systematics, and ecological relationships. (two 65-min lect, one 180-min lab or field study)

Biol 4151. Entomology. (Sci-L; 4 cr; prereq 2101 or #; fall, even years)

Structure, life histories, habits, and classification of common families of insects, including their economic significance. (two 65-min lect, 180-min lab)

Biol 4161. Evolution. (Sci; 4 cr; prereq 2101, 3121 or #; fall, even years)

Survey of the history, evidence, and mechanisms of organic evolution. (two 100-min lect)

Biol 4171. Plant Systematics and Evolution. (Sci-L; 4 cr; prereq 2101, 3121 or #; spring, odd years)

Introduction to the identification and phylogenetics of land plants. Survey of the major trends in plant evolution, including morphological and life history variation among major plant taxa. Use of keys for local flora emphasized. (two 65-min lect, one 180-min lab and field study)

Biol 4181. Developmental Biology. (Sci-L; 4 cr; prereq 2111; 4312 recommended; fall, even years)

Survey of general concepts in developmental biology, emphasizing molecular mechanisms of positional information, pattern formation, and cellular interactions. Stresses comparative aspects of developmental processes, and the role of development in evolution. (two 65-min lectures, one 180-min lab)

Biol 4191. Freshwater Biology. (Sci-L; 4 cr; prereq 2101, 2111 or #; fall, odd years)

Structure, function, and biota of freshwater ecosystems, including lakes, streams and wetlands. Lab emphasizes independent research and field study in local habitats. (two 65-min lect, one 180-min lab; weekend field trip required)

Biol 4211. Biochemistry. (Sci; 4 cr; prereq 3121, Chem 2302 or #; fall, every year)

Structures, functions, and biochemical transformations of proteins, carbohydrates, and lipids. (three 65-min lect) Optional lab offered. See Biol 4611.

Biol 4301. Plant Biology. (Sci-L; 4 cr; prereq 2101, 2111 or #; fall, odd years)

Descriptive and experimental study of plants. Anatomy, development, physiology, secondary compounds, evolution, human uses of plants. (two 65-min lect, one 180-min lab)

Biol 4312. Genetics. (Sci-L; 4 cr; =[Biol 3101]; prereq 2111 or #; spring, every year)

Principles and mechanics of inheritance and variation, including cytological, organismal, and population genetics; mechanisms of evolution; and the genetic problems of humans. (two 65-min lect, 180-min lab)

Biol 4321. Animal Physiology. (Sci-L; 4 cr; prereq 2111; spring, odd years)

Functions of animal structures as they relate to coping with different environmental situations. (two 65-min lect, one 120-min lab)

Biol 4331. Global Change Ecology. (Sci; 4 cr; prereq 3131 or #; spring, odd years)

Global cycles of carbon, water, and nutrients. Advanced consideration of community and ecosystem structure and function. Analysis of natural and human drivers of change in biological systems, including use of quantitative methods and computer models. (two 100-min lect)

Biol 4351. Conservation Biology. (Sci-L; 4 cr; prereq 1101, 2101, coreq 3131 or #; fall, even years)

Application of demographic and genetic models to protect biodiversity, including planning for uncertainty. Population viability, inbreeding depression, contemporary evolution, design and management of reserves, and invasive species. Lab exercises include field trips and computer modeling of endangered species. (two 65-min lect, one 180-min lab)

Biol 4600. Practicum in Biology. (1-2 cr [max 4 cr]; prereq #; no elective or for biol majors or minors; S-N only; fall, spring, every year)

Supervised experience of selected activities; lab preparation/management, greenhouse care/management, animal care, curating museum/herbarium collections. Repeatable with different projects or activities.

Division Structure and Course Descriptions

Biol 4611. Biochemistry Lab. (1 cr; prereq or coreq 4211; fall, every year)

Experiments using the major separation and analytical techniques of biochemistry, including centrifugation, chromatography, electrophoresis, immunochemistry, and spectrophotometry. (one 180-minute lab)

Biol 4901. Senior Seminar. (1 cr; prereq 3701, sr or #; required of all sr biology majors; full-year course begins fall sem; fall, every year)

Seminar on selected biological topics.

Biol 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Chemistry (Chem)

This discipline is in the Division of Science and Mathematics.

Coursework in chemistry spans the four traditional areas of analytical, inorganic, organic, and physical chemistry. Students may also pursue a degree in chemistry with a biochemistry subfield, involving significant coursework in biology. All majors must study beginning physics and calculus. Students may also design an interdisciplinary area of concentration in chemistry-related fields, such as geochemistry or environmental science. Beginning chemistry courses satisfy the physical sciences component of the general education requirements.

Chemistry and biochemistry majors do hands-on work with chemical instrumentation and use computers in both software and hardware applications. The faculty prides itself on working closely with its students on undergraduate research projects, directed studies, and undergraduate teaching assistantships. In addition, chemistry majors are encouraged to complete summer research internships at university and industrial labs or at other research facilities, locally and nationally.

Study in chemistry is the prerequisite for many preprofessional programs at UMM. Students who also do work in the Division of Education can obtain licensure in secondary education. About two-thirds of UMM's chemistry majors pursue postgraduate work toward a doctoral degree—most of them in chemistry, many in medicine; but also in other health-related fields, such as veterinary medicine, pharmacy, and dentistry; in biological fields related to chemistry; and in a variety of other fields.

The other third enter the job market upon graduation, primarily in the chemical industry or in secondary education.

Objectives—The chemistry curriculum focuses on the structure of matter and the conditions required for material change. It is designed to prepare students for post-graduate work in a wide variety of fields, or for a career in industry or in secondary teaching.

Major Requirements

Required Courses

Chem 1101—General Chemistry I, Sci-L (4 cr)

Chem 1102—General Chemistry II, Sci-L (4 cr)

Chem 2301—Organic Chemistry I, Sci (4 cr)

Chem 2302—Organic Chemistry II, Sci (4 cr)

Chem 2311—Organic Chemistry Lab I (1 cr)

Chem 2321—Introduction to Research, Sci-L (2 cr)

Chem 3101—Analytical Chemistry, Sci-L (4 cr)

Chem 3501—Physical Chemistry I, Sci (4 cr)

Chem 3901—Chemistry Seminar I (0.5 cr)

Chem 4901—Chemistry Seminar II (0.5 cr)

Math 1101—Calculus I, M/SR (5 cr)

Math 1102—Calculus II, M/SR (5 cr)

Phys 1101—General Physics I, Sci-L (5 cr)

Phys 1102—General Physics II, Sci-L (5 cr)

Program Sub-Plans

Students are required to complete one of the following sub-plans for the major.

Standard Chemistry Sub-Plan

Required Courses

Chem 3502—Physical Chemistry II, Sci (4 cr)

Chem 3511—Physical Chemistry Lab (1 cr)

Elective Courses

Take 2 or more course(s) from the following:

Chem 3111—Instrumental Analysis, Sci-L (4 cr)

Chem 3701—Inorganic Chemistry, Sci (3 cr)

Chem 3801—History of Chemistry, Sci (3 cr)

Chem 3811—Macromolecules, Sci (3 cr)

Chem 4352—Synthesis, Sci (3 cr)

Chem 4551—Theoretical Chemistry, Sci (3 cr)

Chem 4552—Molecular Spectroscopy, Sci (3 cr)

Chem 4751—Advanced Inorganic Chemistry, Sci (3 cr)

One of the course choices can be either Chem 4351 or the combination of Biol 4211 and 4611.

Chem 4351—Bioorganic Chemistry, Sci (3 cr)

or take all of the following in the same term:

Biol 4211—Biochemistry, Sci (4 cr)

Biol 4611—Biochemistry Lab (1 cr)

Biochemistry Sub-Plan**Required Courses**

- Biol 1111—Fundamentals of Genetics, Evolution, and Development, Sci (3 cr)
 Biol 2111—Cell Biology, Sci-L (4 cr)
 Biol 3121—Molecular Biology, Sci-L (5 cr)
 Biol 4211—Biochemistry, Sci (4 cr)
 Biol 4312—Genetics, Sci-L (4 cr)
 Chem 4351—Bioorganic Chemistry, Sci (3 cr)
 Biol 4611—Biochemistry Lab (1 cr)

Electives

Take 1 or more course(s) from the following:

- Chem 3111—Instrumental Analysis, Sci-L (4 cr)
 Chem 3502—Physical Chemistry II, Sci (4 cr)
 Chem 3701—Inorganic Chemistry, Sci (3 cr)
 Chem 3801—History of Chemistry, Sci (3 cr)
 Chem 3811—Macromolecules, Sci (3 cr)
 Chem 4352—Synthesis, Sci (3 cr)
 Chem 4551—Theoretical Chemistry, Sci (3 cr)
 Chem 4552—Molecular Spectroscopy, Sci (3 cr)
 Chem 4751—Advanced Inorganic Chemistry, Sci (3 cr)

Courses may not be taken S-N. Up to 8 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced. Students should consult members of the chemistry faculty in order to plan programs of study appropriate to their interests and postgraduate goals.

Students may complete a major in chemistry through one of two tracks—the standard chemistry major or the chemistry major with a biochemistry subfield.

Minor Requirements**Required Courses**

- Chem 1101—General Chemistry I, Sci-L (4 cr)
 Chem 1102—General Chemistry II, Sci-L (4 cr)
 Chem 2301—Organic Chemistry I, Sci (4 cr)
 Chem 2311—Organic Chemistry Lab I (1 cr)

Elective Courses

Three elective courses are required. Students must take either Chem 3101 or 3501. Two additional courses are also required. If Chem 3101 is not taken, one of the two courses must include lab or have an additional concurrent lab registration.

If Chem 3101 is taken:

- Chem 3101—Analytical Chemistry, Sci-L (4 cr)
 Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- Chem 2302—Organic Chemistry II, Sci (4 cr)
 Chem 3111—Instrumental Analysis, Sci-L (4 cr)
 Chem 3501—Physical Chemistry I, Sci (4 cr)
 Chem 3502—Physical Chemistry II, Sci (4 cr)
 Chem 3701—Inorganic Chemistry, Sci (3 cr)
 Chem 3801—History of Chemistry, Sci (3 cr)

- Chem 3811—Macromolecules, Sci (3 cr)
 Chem 4351—Bioorganic Chemistry, Sci (3 cr)
 Chem 4352—Synthesis, Sci (3 cr)
 Chem 4551—Theoretical Chemistry, Sci (3 cr)
 Chem 4552—Molecular Spectroscopy, Sci (3 cr)
 Chem 4751—Advanced Inorganic Chemistry, Sci (3 cr)

- Biol 4211—Biochemistry, Sci (4 cr)

Or, if Chem 3101 is not taken:

- Chem 3501—Physical Chemistry I, Sci (4 cr)

Choose one course and lab combination from the following pairs:

Take 2 or more course(s) from the following:

Take all of the following in the same term:

- Chem 2302—Organic Chemistry II, Sci (4 cr)
 Chem 2312—Organic Chemistry Lab II (1 cr)

Take all of the following in the same term:

- Chem 3502—Physical Chemistry II, Sci (4 cr)
 Chem 3511—Physical Chemistry Lab (1 cr)

Take all of the following in the same term:

- Chem 3701—Inorganic Chemistry, Sci (3 cr)
 Chem 3711—Inorganic Chemistry Lab (1 cr)

Take all of the following in the same term:

- Biol 4211—Biochemistry, Sci (4 cr)
 Biol 4611—Biochemistry Lab (1 cr)

Take 1 or more course(s) from the following:

- Chem 2302—Organic Chemistry II, Sci (4 cr)
 Chem 3502—Physical Chemistry II, Sci (4 cr)
 Chem 3701—Inorganic Chemistry, Sci (3 cr)
 Chem 3801—History of Chemistry, Sci (3 cr)
 Chem 3811—Macromolecules, Sci (3 cr)
 Chem 4351—Bioorganic Chemistry, Sci (3 cr)
 Chem 4352—Synthesis, Sci (3 cr)
 Chem 4551—Theoretical Chemistry, Sci (3 cr)
 Chem 4552—Molecular Spectroscopy, Sci (3 cr)
 Chem 4751—Advanced Inorganic Chemistry, Sci (3 cr)

- Biol 4211—Biochemistry, Sci (4 cr)

Courses may not be taken S-N except where noted. Up to 8 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in chemistry 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Division Structure and Course Descriptions

Course Descriptions

Chem 1101. General Chemistry I. (Sci-L; 4 cr; prereq Math 0901 or placement beyond Math 0901 using ACT/placement exam score; fall, every year)

Scientific method, measurements, nomenclature, stoichiometry, atomic and molecular structure, thermochemistry, chemical periodicity, introduction to chemical bonding, and properties of common elements and ions. Development of scientific reasoning and problem-solving skills. Laboratory exercises concomitant with these topics. (3 hrs lect, 3 hrs lab)

Chem 1102. General Chemistry II. (Sci-L; 4 cr; prereq 1101; spring, every year)

Continuation of Chem 1101. Chemical bonding, states of matter, solutions, acid-base chemistry, chemical equilibrium, oxidation-reduction reactions, kinetics, thermodynamics, quantum theory, nuclear chemistry, organic chemistry, and biochemistry. Lab exercises concomitant with these topics. (3 hrs lect, 3 hrs lab)

Chem 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Chem 2301. Organic Chemistry I. (Sci; 4 cr; prereq 1102, coreq 2311; fall, every year)

Introduction to the structure and reactivity of organic molecules; nomenclature and functional groups; stereochemistry; mechanisms of substitution and elimination pathways; physical organic chemistry; introduction to synthetic strategy; fundamentals of spectroscopic techniques. (4 hrs lect)

Chem 2302. Organic Chemistry II. (Sci; 4 cr; prereq 2301, coreq 2321 or # for chem majors; spring, every year)

Continuation of topics from Chem 2301; spectroscopy; chemistry of polyenes, aromatic systems, and amines; enol and enolate chemistry; free-radical chemistry; retrosynthetic analysis; special topics. (4 hrs lect)

Chem 2311. Organic Chemistry Lab I. (1 cr; coreq 2301 or #; fall, every year)

Development of lab techniques in organic chemistry; experimental problem-solving. (3 hrs lab)

Chem 2312. Organic Chemistry Lab II. (1 cr; prereq 2311, coreq 2302 or #; spring, every year)

Laboratory work in organic synthesis, experimental design, and spectroscopic analysis with an emphasis on reactions of biological interest. (3 hrs lab)

Chem 2321. Introduction to Research. (Sci-L; 2 cr; coreq 2302 or #; spring, every year)

Interdisciplinary approach to experiment design and analysis of data. Synthesis of organic, organometallic, and/or inorganic compounds, with emphasis on purification and characterization using instrumental methods. Instruction in use of the scientific literature and scientific report writing. (6 hrs lab)

Chem 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Chem 3101. Analytical Chemistry. (Sci-L; 4 cr; prereq 1102; fall, every year)

The application of chemical equilibria to chemical analysis with emphasis on the fundamental quantitative aspects of analytical chemistry. Acid-base, oxidation-reduction, and complexometric titrations, introduction to electrochemical and spectrophotometric analyses and separations. (3 hrs lect, 3 hrs lab)

Chem 3111. Instrumental Analysis. (Sci-L; 4 cr; prereq 3101; spring, even years)

Principles of chemical instrumentation and instrumental methods of analysis; extensive lab work using chromatographic, spectrophotometric, and electrochemical methods of analysis. (2 hrs lect, 4 hrs lab)

Chem 3501. Physical Chemistry I. (Sci; 4 cr; prereq 1102, Phys 1101, Math 1102 or #; fall, every year)

The gas state. Classical thermodynamics. Phase, chemical and heterogeneous equilibria. Chemical kinetics. Kinetic theory of gases. Transport. (4 hrs lect)

Chem 3502. Physical Chemistry II. (Sci; 4 cr; prereq 3501, coreq 3511 or # for chem majors; spring, every year)

Introduction to quantum theory. Atomic and molecular structure. Group Theory. Introduction to statistical mechanics. Chemical dynamics. Topics drawn from the liquid and solid states, advanced kinetics, electrochemistry and surfaces. (4 hrs lect)

Chem 3511. Physical Chemistry Lab. (1 cr; coreq 3502; spring, every year)

Lab experiments to illustrate physico-chemical principles and to develop skills in data collection, analysis and interpretation, and in report writing. (3 hrs lab)

Chem 3701. Inorganic Chemistry. (Sci; 3 cr; prereq 3501 or #; spring, every year)

The periodic table; models of structure and bonding of main group elements and transition metals, nomenclature, symmetry, and bonding theory of coordination compounds. (3 hrs lect)

Chem 3711. Inorganic Chemistry Lab. (1 cr; coreq 3701 or #; spring, even years)

Lab experiments in inorganic/organometallic chemistry illustrating synthetic and spectroscopic techniques. (3 hrs lect)

Chem 3801. History of Chemistry. (Sci; 3 cr; prereq 2301 or #; fall, odd years)

Theories of atoms, elements, principles. Alchemy. Pneumatic chemistry. Phlogiston. Lavoisier and chemical revolution. Dalton and atomic weight scales. Physical and chemical atoms. Cannizzaro and Karlsruhe Congress. Einstein, Perrin and the reality of atoms. Niels Bohr and periodic table. (3 hrs lect)

Chem 3811. Macromolecules. (Sci; 3 cr; prereq 2302, 3501 or #; fall, even years)

The molecular structure and bulk properties of macromolecules. Viscoelasticity. Molar masses of polymers. Polymer synthesis. Kinetics and mechanism. Macromolecular conformations. (3 hrs lect)

Chem 3901. Chemistry Seminar I. (0.5 cr; prereq 2321; required of all chem majors; may not count toward chem minor; spring, every year)

Presentations by faculty, guest speakers, and students on topics of current research interest. Students are required to present one seminar for the Chem 3901-4901 sequence.

Chem 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Chem 4351. Bioorganic Chemistry. (Sci; 3 cr; prereq 2302, Biol 4211; spring, odd years)
Discussion of the theory of enzyme catalysis and catalytic antibodies, experimental determination of catalytic mechanisms for a variety of organic reactions in biological systems, and elucidation of biosynthetic pathways. Involves extensive reading in the primary literature. (3 hrs lect)

Chem 4352. Synthesis. (Sci; 3 cr; prereq 2302; fall, odd years)
Study of the preparation of biologically active molecules, emphasizing the application of transition metal chemistry to modern synthetic methods. (3 hrs lect)

Chem 4353. Synthesis Laboratory. (1 cr; prereq 4352 or #; offered when feasible; fall, spring)
Modern organometallic synthetic methods applied to the preparation of small organic molecules. Preparation, purification, analysis, and identification of synthetic products. Scientific record-keeping and literature searching. (3 hrs lab)

Chem 4551. Theoretical Chemistry. (Sci; 3 cr; prereq 3502 or #; offered when feasible; fall)
Quantum theory of molecules. Statistical thermodynamics; Gibbsian ensembles; applications. (3 hrs lect)

Chem 4552. Molecular Spectroscopy. (Sci; 3 cr; prereq 2311, 3101 or #; spring, odd years)
Interaction of molecules and electromagnetic radiation. Spectroscopic determination of molecular structure. Operation of spectrometers and spectrophotometers. (3 hrs lect)

Chem 4751. Advanced Inorganic Chemistry. (Sci; 3 cr; prereq 3701 or #; fall, spring)
Structure and reactions of coordination compounds, inorganic cages and clusters, lanthanide and actinide series. (3 hrs lect)

Chem 4901. Chemistry Seminar II. (0.5 cr; prereq 3901; required of all chem majors; may not count toward chem minor; fall, spring, every year)
Continuation of Chemistry Seminar I.

Chem 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Chinese (Chn)

This discipline is in the Division of the Humanities. The Chinese discipline introduces students to the study of the language, literature and culture of China. The courses satisfy foreign language and other general education requirements.

Objectives—The Chinese discipline is designed to help students develop a number of skills in Chinese, including comprehension and speaking, reading, and writing, in order to communicate effectively in Chinese on a broad range of topics. The courses are designed to help students develop critical insight into the philosophy and values of another culture as they increase their competence in a second language.

Study Abroad

In light of today's increasingly interdependent world, the UMM Chinese discipline endorses study abroad as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one's world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally

Course Descriptions

Chn 1001. Beginning Modern Chinese I. (FL; 4 cr; fall, every year)

First semester of a two-semester sequence in first-year modern standard Chinese (Mandarin) for students who have no previous exposure to the Chinese language. Introduction to the sounds of Mandarin, basic grammar, vocabulary, and the Chinese writing system. [Continuing Education course]

Chn 1002. Beginning Modern Chinese II. (FL; 4 cr; prereq 1001 or #; spring, every year)

Second semester of the two-semester sequence in first-year Chinese. Designed for those who have completed first-semester Chinese or who have equivalent preparation. Introduction to additional modern standard Chinese (Mandarin) grammar, vocabulary, and sentence structures. By the end of the semester, students should be able to recognize some of the Chinese characters, write about part of them from memory, conduct simple conversations, and read simple Chinese texts on general topics. [Continuing Education course]

Computer Science (CSci)

This discipline is in the Division of Science and Mathematics.

Objectives—The computer science curriculum is designed to provide students with a strong foundation in the diverse and rapidly changing field of computing. The science of computing is emphasized with a focus on fundamental principles and the formal underpinnings of the field. Students are encouraged to use and supplement their formal education through a variety of research opportunities, participation in discipline colloquia and student/professional organizations, and pursuit of internship experiences or international studies opportunities. Students who successfully complete the major are qualified to enter the computing field as professionals or to pursue graduate studies.

Major Requirements

Required Courses

- CSci 1301—Problem Solving and Algorithm Development, M/SR (4 cr)
 CSci 1302—Foundations of Computer Science, M/SR (4 cr)
 CSci 2101—Data Structures, M/SR (5 cr)
 CSci 2901—Seminar I (1 cr)
 CSci 3401—Models of Computing Systems, M/SR (5 cr)
 CSci 3501—Algorithms and Computability, M/SR (5 cr)
 CSci 3601—Software Design and Development, M/SR (5 cr)
 CSci 4901—Seminar II (1 cr)

Elective Courses

Computer science major electives are divided into three areas: Systems courses (CSci 44xx), Theory courses (CSci 45xx), and Programming and Languages courses (CSci 46xx). The discipline offers an array of courses in each area. The courses listed in this catalog are representative of the courses offered. New courses are continually developed and added to keep up with changes in the field.

Take 10 or more credit(s) including exactly 3 sub-requirement(s) from the following:

Computing Systems Courses (44xx):

Take 2–4 credit(s) from the following:

- CSci 4403—Systems: Data Mining, M/SR (2 cr)
 CSci 4406—Systems: Wireless Data Networks, M/SR (2 cr)
 CSci 4408—Systems: Computer Forensics, M/SR (2 cr)
 CSci 4451—Systems: Distributed Systems, M/SR (4 cr)

CSci 4452—Systems: Computer Networks, M/SR (4 cr)

CSci 4453—Systems: Database Systems, M/SR (4 cr)

CSci 4454—Systems: Robotics, M/SR (4 cr)

CSci 4456—Systems: Advanced Operating Systems, M/SR (4 cr)

Theory Courses (45xx):

Take 2–4 credit(s) from the following:

- CSci 4506—Theory: Fuzzy Logic and Fuzzy Sets, M/SR (2 cr)
 CSci 4507—Theory: Data Compression, M/SR (2 cr)
 CSci 4552—Theory: Advanced Algorithms, M/SR (4 cr)
 CSci 4553—Theory: Evolutionary Computation and Artificial Intelligence, M/SR (4 cr)
 CSci 4554—Theory: Cryptography, M/SR (4 cr)
 CSci 4555—Theory: Neural Networks and Machine Learning, M/SR (4 cr)
 CSci 4556—Theory: Computer Graphics, M/SR (4 cr)

Programming and Languages Courses (46xx):

Take 2–4 credit(s) from the following:

- CSci 4604—Programming and Languages: Graphical User Interfaces, M/SR (2 cr)
 CSci 4605—Programming and Languages: Refactoring, M/SR (2 cr)
 CSci 4651—Programming and Languages: Programming Languages, M/SR (4 cr)
 CSci 4652—Programming and Languages: Compilers, M/SR (4 cr)
 CSci 4653—Programming and Languages: Software Engineering, M/SR (4 cr)
 CSci 4654—Programming and Languages: Modern Functional Programming, M/SR (4 cr)
 CSci 4655—Programming and Languages: Software Design and Development II, M/SR (4 cr)
 CSci 4656—Programming and Languages: Human-Computer Interaction and Interface Design, M/SR (4 cr)
 CSci 4657—Programming and Languages: Programming Languages for Client-Server Systems, M/SR (4 cr)

Math and Statistics Electives

Take 12 or more credit(s) from the following:

- Math 1101 and above, excluding Math 2211, or Stat 2xxx and above.
 Math 1101—Calculus I, M/SR (5 cr)
 Math 1102—Calculus II, M/SR (5 cr)
 Math 2101—Calculus III, M/SR (4 cr)
 Math 2111—Linear Algebra, M/SR (4 cr)
 Math 2202—Mathematical Perspectives, M/SR (4 cr)
 Math 2401—Differential Equations, M/SR (4 cr)
 Math 2501—Probability and Stochastic Processes, M/SR (4 cr)

Math 3xxx, 4xxx
Stat 2xxx, 3xxx, 4xxx

Other Science Electives

Take 2 or more course(s) totaling 8 or more credit(s) from the following:

Biol 1xxx, 2xxx, 3xxx, 4xxx
Chem 1xxx, 2xxx, 3xxx, 4xxx
Geol 1xxx, 2xxx, 3xxx, 4xxx
Phys 1xxx, 2xxx, 3xxx, 4xxx

No more than two courses with a grade of D or D+, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science major. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Minor Requirements

Required Courses

CSci 1301—Problem Solving and Algorithm Development, M/SR (4 cr)
CSci 1302 – Foundations of Computer Science, M/SR (4 cr)
CSci 2101—Data Structures, M/SR (5 cr)
Take 2 or more course(s) from the following:
CSci 3401—Models of Computing Systems, M/SR (5 cr)
CSci 3501—Algorithms and Computability, M/SR (5 cr)
CSci 3601—Software Design and Development, M/SR (5 cr)

Elective Courses

Take 4 or more credit(s) from the following:
Math 1021—Survey of Calculus, M/SR (4 cr)
Math 1101—Calculus I, M/SR (5 cr)
Math 1102—Calculus II, M/SR (5 cr)
Math 2101—Calculus III, M/SR (4 cr)
Math 2111—Linear Algebra, M/SR (4 cr)
Math 2202—Mathematical Perspectives, M/SR (4 cr)
Math 2401—Differential Equations, M/SR (4 cr)
Math 2501—Probability and Stochastic Processes, M/SR (4 cr)

Math 3xxx, 4xxx
Stat 1xxx, 2xxx, 3xxx, 4xxx

No more than two courses with a grade of D or D+, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science minor. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Course Descriptions

CSci 1001. Introduction to the Computing World. (M/SR; 2 cr; no elective cr for CSci majors or minors; fall, spring, every year)
Basic hardware and software concepts, elementary data representation, problem solving techniques, algorithm development, and current information processing and network applications.

CSci 1021. Introduction to Data Visualization. (M/SR; 2 cr; no elective cr for CSci majors or minors; offered when feasible; fall, spring)

Principles and methods for visualizing data from measurements and calculations in the physical, life, and social sciences. Emphasis on 3D computer-graphics providing insight into multi-dimensional data sets. Common data visualization techniques, various data formats, visualization tools, and common techniques in information visualization.

CSci 1101. Dynamic Web Programming. (M/SR; 2 cr; no elective cr for CSci majors or minors; offered when feasible; fall, spring)
Basics of dynamic Web design; programming and problem-solving using Web languages, such as PHP and HTML, and languages for data storage and manipulation, such as SQL and XML; introduction to client/server model; aspects of online privacy and security. Hands-on experience with creating and maintaining interactive Web pages. No previous programming knowledge or experience required.

CSci 1201. Introduction to Digital Media Computation. (M/SR; 4 cr; no elective cr for CSci majors or minors; offered when feasible; fall, spring)
Using images, sounds, and movies to introduce problem solving, data representation, data manipulation, and programming principles including recursion. Introduction to basic ideas in hardware, software, and computing.

CSci 1301. Problem Solving and Algorithm Development. (M/SR; 4 cr; fall, spring, every year)
Introduction to different problem solving approaches, major programming paradigms, hardware, software, and data representations. Study of the functional programming paradigm, concentrating on recursion and inductively-defined data structures. Simple searching and sorting algorithms.

CSci 1302. Foundations of Computer Science. (M/SR; 4 cr; fall, spring, every year)
Basic proof techniques, propositional and predicate logic, induction and invariants, program correctness proofs, simple Big-Oh analysis of algorithms, set theory, introductory graph theory, matrices, and recurrence relations.

CSci 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

CSci 2101. Data Structures. (M/SR; 5 cr; prereq 1301 or #; fall, spring, every year)
Introduction to data types, including stacks, queues, trees, and graphs; implementation of abstract data types, using object-oriented techniques and reusable libraries. (4 hrs lect, 2 hrs lab)

CSci 2601. Interactive Computer Graphics. (M/SR; 4 cr; prereq 2101; offered when feasible; fall, spring)
Introduction to interactive graphics programming. Display hardware, graphics processing pipeline, geometric

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modeling, image formats, and color theories. Graphics programming using graphics hardware and display technology.

CSci 2901. Seminar I. (1 cr; prereq 1301, 1302; S-N only; fall, spring, every year)

Familiarizes students with literature in the field, focusing on ethical issues in computing. Discussion and group work. Students analyze various articles or similarly published works, synthesize their contents, make formal presentations, and attend and evaluate the presentations of their peers.

CSci 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

CSci 3401. Models of Computing Systems. (M/SR; 5 cr; prereq 1302, 2101 or #; spring, every year)

Basics of computing systems, models of networks and operating systems. Discussion of deadlock, scheduling, protection and security, data management, inter-computer communication, the OSI network model, and how the three lower layers are instantiated in TCP/IP. (4 hrs lect, 2 hrs lab)

CSci 3501. Algorithms and Computability. (M/SR; 5 cr; prereq 1302, 2101 or #; fall, every year)

Models of computation (Turing machines, lambda calculus, deterministic and non-deterministic machines); approaches to the design of algorithms, determining correctness and efficiency of algorithms; complexity classes, NP-completeness, approximation algorithms. (4 hrs lect, 2 hrs lab)

CSci 3511. Introduction to Bioinformatics. (M/SR; 4 cr; prereq 2101, Biol 2111, Chem 1102 or #; offered when feasible; fall, spring)

Introduction to computational problems arising from molecular biology and genetics. Development and application of algorithmic solutions to these problems. Topics may include sequence analysis, pairwise and multiple sequence alignment, construction of phylogenetic histories, and protein structure and folding. Introduction to online genomics databases.

CSci 3601. Software Design and Development. (M/SR; 5 cr; prereq 1302, 2101 or #; spring, every year)

Design and implementation of medium- and large-scale software systems. Principles of organizing and managing such designs and implementations throughout their lifetime. Designing for modularity and software reuse; use of libraries. Dynamics of working in groups. Group lab work on a substantial software project. (4 hrs lect, 2 hrs lab)

CSci 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

CSci 4403. Systems: Data Mining. (M/SR; 2 cr; prereq 2101 or #; offered when feasible; fall, spring)

An introduction to a new field which tries to solve the problem of how to store (warehouse) and how to extract (mine) valid, useful, and previously unknown data from a source (database or web) which contains an overwhelming amount of information. Algorithms

applied include searching for patterns in the data, using machine learning, and applying artificial intelligence techniques.

CSci 4406. Systems: Wireless Data Networks. (M/SR; 2 cr; prereq 3401 or #; offered when feasible; fall, spring)

Licensed vs. unlicensed carrier frequencies. Physical layer characteristics and protocols. Network topologies. Discussion of current and upcoming standards. Data privacy and security.

CSci 4408. Systems: Computer Forensics. (M/SR; 2 cr; prereq 3401 or #; offered when feasible; spring)

The study of tools and procedures to identify and prosecute computer crime. Topics include electronic discovery, preserving computer evidence, data hiding methods, current forensic and security tools, guidelines for searching and seizing computer equipment.

CSci 4451. Systems: Distributed Systems. (M/SR; 4 cr; prereq 3401 or #; offered when feasible; fall, spring)

An introduction to distributed systems/computation. Topics include processes and threads, physical vs. logical clocks, interprocess communication and coordination, election algorithms, synchronization, distributed task scheduling, distributed shared memory, distributed file systems, and replicated data management.

CSci 4452. Systems: Computer Networks. (M/SR; 4 cr; prereq 3401 or #; offered when feasible; fall, spring)

Principles of computer networks. Network topologies, protocols, routing, internetworking, security and privacy.

CSci 4453. Systems: Database Systems. (M/SR; 4 cr; prereq 2101 or #; offered when feasible; fall, spring)

Introduction to relational, object-relational, and object database systems. Topics include the relational model, SQL and related query languages, JDBC and database applications programming, database design, query processing and optimization, indexing techniques, and transaction management.

CSci 4454. Systems: Robotics. (M/SR; 4 cr; prereq 2101 or #; offered when feasible; fall, spring)

An introduction to robotic systems including robot mechanics, algorithms in robotics, and sensor interfaces for autonomous mobile and arm robots. Concepts of kinematics and coordinate systems, real-time programming, embedded systems, pattern recognition algorithms, simulation environments, and subsumption architecture within the context of robotics applications are explored.

CSci 4456. Systems: Advanced Operating Systems. (M/SR; 4 cr; prereq 3401 or #; offered when feasible; fall, spring)

Broad exposure to advanced operating systems topics such as process communication, protection, security, memory management, operating system kernels, network operating systems, synchronization, naming, and distributed systems.

CSci 4506. Theory: Fuzzy Logic and Fuzzy Sets. (M/SR; 2 cr; prereq 3501 or #; offered when feasible; fall, spring)

Fuzzy logic and fuzzy sets are used in expert systems, controllers, pattern recognition, databases, decision making, robotics, and economics. The basic theory of fuzzy sets and fuzzy logic along with a brief survey of some of the current research. May include presentations and/or a project.

CSci 4507. Theory: Data Compression. (M/SR; 2 cr; prereq 3501 or #; offered when feasible; fall, spring)

Introduction to data compression (including lossy and lossless compression techniques), wavelets, differential

encoding techniques (including pulse code and delta modulation), and subband coding with applications to speech, audio, and images. Compression standards such as the CCITT international standard and MPEG audio compression standard.

CSci 4552. Theory: Advanced Algorithms. (M/SR; 4 cr; prereq 3501 or #; offered when feasible; fall, spring)

Techniques for designing and analyzing efficient algorithms to solve a variety of practical problems. Some algorithmic techniques include dynamic programming, greedy methods, and amortized analysis. Other topics include graph algorithms, string matching, approximation algorithms, and NP-Completeness.

CSci 4553. Theory: Evolutionary Computation and Artificial Intelligence. (M/SR; 4 cr; prereq 2101 or #; offered when feasible; fall, spring)

Introduction to Evolutionary Computation as an Artificial Intelligence tool for developing solutions to problems that are difficult to describe precisely or solve formally, as well as comparisons with other AI techniques.

Includes discussions of theoretical background and tools, implementation issues, and applications.

CSci 4554. Theory: Cryptography. (M/SR; 4 cr; prereq 1302, 2101 or #; offered when feasible; fall, spring)

Theory and applications of cryptography. Overview of necessary mathematical concepts. Discussion of algorithms and protocols including public and private key encryption, authentication, and zero knowledge proofs.

CSci 4555. Theory: Neural Networks and Machine Learning. (M/SR; 4 cr; prereq 1302, 2101 or #; offered when feasible; fall, spring)

Study of the underlying theory, structure, and behavior of neural networks and of how neural networks compare to and can be used to supplement other methods of machine learning. Methods such as decision tree learning, inductive learning, reinforcement learning, supervised learning, and explanation-based learning are examined. Analysis of the strengths and weaknesses of various approaches to machine learning. Includes an implementation project.

CSci 4556. Theory: Computer Graphics. (M/SR; 4 cr; prereq 1302, 2101 or #; offered when feasible; fall, spring)

Introduction to basic concepts and algorithms in computer graphics, including three-dimensional geometry and various approaches to modeling three-dimensional scenes. An introduction to transformation and viewing, lighting, shading, texture, and color. Advanced topics may include ray tracing, radiosity, and animation. Students complete several significant projects.

CSci 4604. Programming and Languages: Graphical User Interfaces. (M/SR; 2 cr; prereq 3601 or #; offered when feasible; fall, spring)

An exploration into designing Graphical User Interfaces. Aspects of human-computer interaction are discussed along with how to design good user interfaces. Students complete a project using Java's Swing.

CSci 4605. Programming and Languages: Refactoring. (M/SR; 2 cr; prereq 3601 or #; offered when feasible; fall, spring)

Introduction to methodologies for the long-term development and maintenance of software systems. Discussion of methods of fixing errors and extending functionality in a controlled manner that builds on and improves the underlying system design, as well as tools for regression testing to help catch introduced errors. There is a significant programming component as well as change documentation and classroom presentations.

CSci 4651. Programming and Languages: Programming Languages. (M/SR; 4 cr; prereq 2101 or #; offered when feasible; fall, spring)

History of programming languages, formal specification of syntax and semantics of programming languages from a variety of paradigms (procedural functional, logic-programming, object-oriented, and parallel paradigms), modern language features.

CSci 4652. Programming and Languages: Compilers. (M/SR; 4 cr; prereq 3501, 3601 or #; offered when feasible; fall, spring)

Program translations from a variety of paradigms. Lexical analysis and parsing techniques, intermediate representations, type checking, code generation, error detection and recovery, optimization.

CSci 4653. Programming and Languages: Software Engineering. (M/SR; 4 cr; prereq 3601 or #; offered when feasible; fall, spring)

Examination of software engineering techniques and methodologies. Topics include software life cycle models, analytical and software tools used in software engineering, software metrics, testing techniques, design techniques, planning and estimation methodologies, and issues related to the reusability, portability, and interoperability of software systems. Emphasis on the application of these techniques and methodologies to real world problems. Includes a team-based software development project.

CSci 4654. Programming and Languages: Modern Functional Programming. (M/SR; 4 cr; prereq 1302, 2101 or #; offered when feasible; fall, spring)

Survey of concepts, tools, and techniques from the realm of functional programming. Topics include higher order functions, currying, type systems, concurrency models, mechanisms for managing state, and methods of compilation and evaluation such as graph reduction and term rewriting.

CSci 4655. Programming and Languages: Software Design and Development II. (M/SR; 4 cr; prereq 3601 or #; offered when feasible; May session)

Design and implementation of a medium-scale software system in an intensive, full-time lab setting where teams use object-oriented tools and agile development processes. Emphasis on the creation, evolution, and maintenance of system design.

CSci 4656. Programming and Languages: Human-Computer Interaction and Interface Design. (M/SR; 4 cr; prereq 2101 or #; offered when feasible; fall, spring)

Introduction to the design, evaluation, and implementation of interactive computing systems for human use with a particular emphasis on user interfaces. Possible domains include usability issues for desktop applications, embedded systems, and Web design. Student projects include evaluative studies and sample implementations.

CSci 4657. Programming and Languages: Programming Languages for Client-Server Systems. (M/SR; 4 cr; prereq 3601 or #; offered when feasible; fall, spring)

Client/Server model and related Internet protocols. Server-side data storage. Common programming languages and technologies for client-side and server-side data processing. Related security issues.

CSci 4901. Seminar II. (1 cr; prereq 2901, jr or sr; S-N only; fall, spring, every year)

In-depth survey of literature in a specific computer-related field of the student's choice. Students analyze various articles or similarly published works, synthesize

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their contents, and present their work formally in a conference setting. Multiple writing and speaking experiences reviewed by faculty and classmates.

CSci 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Dance (Dnce)

This discipline is in the Division of the Humanities. The program explores dance as a performance art form and cultural expression of various societies throughout the world. It is enhanced by performance opportunities, guest choreographers, conference participation, and other activities sponsored by the UMM Dance Ensemble student organization.

Objectives—The dance program helps students develop a working knowledge and a conceptual understanding of dance as an art form. Students are introduced to the cultural roots of dance, the traditions of training for dance performance, and the skills necessary for dance performance. Students interested in pursuing dance may create an area of concentration or emphasis by combining these courses with courses from other disciplines.

Course Descriptions

Dnce 1321. Introduction to Modern Dance and Ballet. (ArtP; 1 cr [max 2 cr]; S-N only; fall, every year)

Practice in the fundamental movement vocabulary and steps of dance with an emphasis on traditional ballet techniques and modern dance interpretations. Exploration of body awareness through improvisational exercises and compositional studies. Discussion of the cultural origins of style in dance and the role of dance in contemporary life.

Dnce 1322. Introduction to Jazz and Modern Dance. (ArtP; 1 cr [max 2 cr]; S-N only; spring, every year)

Fundamental movement vocabulary and steps of dance from the unique perspective of American Jazz combined with modern dance. Explores body awareness through improvisational exercises and composed studies. Discussion of dance in contemporary life, individual style, and the cultural origins of jazz music and movement.

Dnce 1323. Introduction to Tap Dance. (ArtP; 1 cr [max 2 cr]; S-N only; fall, every year)

Practice in footwork and introduction to vocabulary that forms the basis of the percussive dance form. Discussion of origins of the dance form, different styles and relationship to musical structures. Practice in improvisational tap skills.

Dnce 1331. Ballet I. (ArtP; 1 cr [max 2 cr]; prereq 1321 or #; fall, spring, every year)

A basic study of ballet including its vocabulary, technique, and history. Appropriate for beginning-level students or students who have completed Dnce 1321 or 1322.

Dnce 1332. Jazz Dance I. (ArtP; 1 cr [max 2 cr]; prereq 1322 or #; spring, every year)

A basic study of jazz dance including its technique, history, and applications. Appropriate for beginning-level students or students who have completed Dnce 1321 or 1322.

Dnce 1333. Modern Dance I. (ArtP; 1 cr [max 2 cr]; prereq 1321 or 1322 or #; spring, every year)

A basic study of modern dance including alignment, technique, and history. Appropriate for beginning-level students or students who have completed Dnce 1321 or 1322.

Dnce 2011. Dance in Society. (HDiv; 4 cr; fall, odd years)

Through a broad, cross-cultural survey of the different ways in which dance functions in the modern world, students gain an appreciation of the way this art form reflects social and historical experiences. Includes lectures, readings, and opportunities to see dance through videos, observations, and live performances.

Dnce 2301. Practicum in Dance. (ArtP; 1 cr; prereq #; fall, spring, every year)

Directed projects in performance and production aspects of dance for the stage. Projects can be focused on either choreography or technical theatre for dance.

Dnce 2311. Dance Composition. (ArtP; 4 cr; offered when feasible; fall)

Introduction to the basic elements of choreography, including the use of space, time, energy, abstraction, motif and development, and the selection of music. Using improvisation and assigned movement problems to learn the process of crafting solo and group choreography. [Continuing Education course]

Dnce 2331. Ballet II. (ArtP; 1 cr [max 2 cr]; prereq 1331 or #; ballet slippers required; fall, every year)

A low intermediate-level study of classical ballet. Emphasis on advancing technical skill through conditioning and performance of ballet steps and combinations.

Dnce 2332. Jazz Dance II. (ArtP; 1 cr [max 2 cr]; prereq 1332 or #; spring, every year)

Builds upon basic dance vocabulary with emphasis on the movement vocabulary of jazz dance. Emphasis on African dance roots and stylistic variations in contemporary jazz dance forms. Includes a performance experience.

Dnce 2333. Modern Dance II. (ArtP; 1 cr [max 2 cr]; prereq 1333 or #; fall, every year)

Builds upon basic dance vocabulary with movement exercises drawn from traditional schools of modern dance technique (Wigman/Holm, Graham, Humphrey/Limon, Horton, Cunningham). Emphasis is on advancing technical skills through conditioning, improvisation, and movement combinations. Includes a performance experience.

Dnce 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)

A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.

Dnce 3031. Ballet III. (ArtP; 1 cr [max 3 cr]; prereq 2331 or #; spring, every year)

Advanced-level study of ballet technique with focus on the fine tuning of physical and performing skills. Appropriate for upper-level students. Ballet slippers required. [Continuing Education course]

Dnce 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year) A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.

Dnce 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year) A learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum such as dance history, choreography and directing, dance education for children.

Economics (Econ)

This discipline is in the Division of the Social Sciences.

Objectives—The economics curriculum is designed to ensure that students:

- understand the nature and functioning of the market system
- are able to define criteria for assessing efficiency in the provision of goods and services
- investigate and assess the operation of economic institutions
- are able to evaluate alternative policies intended to enhance economic outcomes
- develop competence in quantitative methods and computing methods
- are able to conceptualize and analyze problems using the tools of economic theory, and communicate the results
- are competent in oral and written communication
- are adequately prepared for graduate or professional school.

Major Requirements

Econ 1111—Principles of Microeconomics
 Econ 1112—Principles of Macroeconomics
 Econ 3201—Microeconomic Theory
 Econ 3202—Macroeconomic Theory
 Econ 3501—Introduction to Econometrics
 Econ 4501—Senior Research Seminar in Economics and Management

Math 1101—Calculus I

Stat 1601—Introduction to Statistics

or Stat 2601—Statistical Methods

14 additional credits in Econ courses at 3xxx and above

No more than 4 credits from each of the following can be applied to the major.

Econ x993—Directed Study

Econ 4501—Senior Research Seminar in Economics and Management

Grades of D or D+ in Econ 1111-1112, Math 1101, and Stat 1601 may not be used to meet major requirements. Up to 4 credits of other economics coursework with a grade of D or D+ may be used to meet major requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Students should complete the following during their first two years:

Econ 1111—Principles of Microeconomics

Econ 1112—Principles of Macroeconomics

Math 1101—Calculus I

Stat 1601—Introduction to Statistics

or Stat 2601—Statistical Methods

Students should complete the following before their senior year:

Econ 3201—Microeconomic Theory

Econ 3202—Macroeconomic Theory

Econ 3501—Introduction to Econometrics

Minor Requirements

Econ 1111—Principles of Microeconomics

Econ 1112—Principles of Macroeconomics

Econ 3201—Microeconomic Theory

Econ 3202—Macroeconomic Theory

Math 1101—Calculus I

Stat 1601—Introduction to Statistics

or Stat 2601—Statistical Methods

6 additional credits in Econ courses at 3xxx or above

No more than 4 credits from each of the following can be applied to the minor.

Econ x993—Directed Study

Econ 4501—Senior Research Seminar in Economics and Management

Grades of D or D+ in Econ 1111-1112, Math 1101, and Stat 1601 may not be used to meet minor requirements. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Division Structure and Course Descriptions

Course Descriptions

Econ 1111. Principles of Microeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

Econ 1112. Principles of Macroeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation, and unemployment; competing macroeconomic theories and stabilization policies.

Econ 1951. Seminar for Social Science Majors. (1 cr; prereq 1112; no cr for students who are concurrently enrolled in or have received cr for 3xxx Econ courses; S-N only; fall, spring, every year)

Familiarization with various journals, periodicals, and sources of statistical information that deal with current developments in economics.

Econ 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Econ 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Econ 3003. Political Economy I. (SS; 2 cr; prereq 1111, 1112 or #; spring)

The methodology, basic structure, and historical evolution of the modern economy, including the nature and mode of regulation of capitalist economies.

Econ 3004. Political Economy II. (SS; 2 cr; prereq 3003 or #; spring)

The dynamics and transformation of contemporary capitalism, including the introductory study of the nature of accumulation process, economic crisis, and hegemonic tendency of the economy over all other aspects of social life in contemporary society.

Econ 3005. Experimental and Behavioral Economics I. (SS; 2 cr; prereq 1111, 1112, Math 1101 or #; offered when feasible; fall, spring)

Introduction to economic experiments as controlled tests of microeconomic and game-theoretic behavioral predictions. In-class economic experiments, elements of non-cooperative game theory, results of market and social preference experiments, and empirical applications.

Econ 3006. Experimental and Behavioral Economics II. (SS; 2 cr; prereq 3005 or #; offered when feasible; fall, spring)
Advanced concepts and applications in experimental and behavioral economics.

Econ 3007. Environmental and Natural Resource Economics I. (Env; 2 cr; prereq 1111 or #; offered when feasible; fall, spring)
An overview of “brown” pollution and “green” sustainability issues in environmental and natural resource economics. Emphasis on the role of market

failures in causing environmental problems and on the design of market mechanisms and incentive regulations to solve those problems. Analysis of current federal policy in the areas of water and air pollution.

Econ 3008. Environmental and Natural Resource Economics II.

(Env; 2 cr; prereq 3007 or #; offered when feasible; fall, spring)
The economic analysis of sustainability, focusing on market designs to discourage over-exploitation of both renewable and exhaustible natural resources. Topics include markets for water, fisheries, and energy.

Econ 3113. Money, Banking, and Financial Markets. (SS; 4 cr; prereq 1111, 1112 or #; fall, every year)

Nature and function of money; role of commercial banks and other financial institutions; structure and function of Federal Reserve system; monetary policies for stabilization and growth; and a survey and synthesis of major theories on the value of money.

Econ 3121. Public Economics I. (SS; 2 cr; prereq 1111, 1112 or #; offered when feasible; spring)

Analysis of the economics of public expenditures.

Econ 3122. Public Economics II. (SS; 2 cr; prereq 1111, 1112 or #; offered when feasible; spring)

Analysis of the economics of taxation.

Econ 3131. Comparative Economic Systems. (IP; 2 cr; prereq 1111, 1112 or #; offered when feasible; fall, spring)

Comparison of the theory and functioning of the major economic systems of the world; economic reform in capitalist and socialist economies.

Econ 3141. Economic Development and Growth I. (IP; 2 cr; prereq 1111, 1112 or #; fall, every year)

Nature and meaning of economic development. Theories of economic growth and the historical experience of now developed countries. General development problems facing developing countries.

Econ 3142. Economic Development and Growth II. (IP; 2 cr; prereq 3141 or #; fall, every year)

Current development problems and policies in developing countries; the possibilities and prospects for future development. Case studies examining the development progress of these countries.

Econ 3201. Microeconomic Theory. (SS; 4 cr; prereq 1111, Math 1101 or #; fall, every year)

Analytical approach to decision making by individual economic units in the output and input markets, under perfect and imperfect market conditions. Externalities and role of government.

Econ 3202. Macroeconomic Theory. (SS; 4 cr; prereq 1112, Math 1101 or #; spring, every year)

The theory of national income determination; inflation, unemployment, and economic growth in alternative models of the national economy.

Econ 3211. History of Economic Thought I. (Hist; 2 cr; prereq 1111, 1112; fall, every year)

The origin and development of economic thought from Mercantilism through the classical school. Among others, Adam Smith and Karl Marx are featured. Nature of economics as a social science through the study of its historical development.

Econ 3212. History of Economic Thought II. (Hist; 2 cr; prereq 3211 or #; fall, every year)

The development of economic thought from Marx and the end of the classical school, through the development of more modern approaches. In addition to the demise

of classical thought, a selection from the thinkers who contributed to the foundations of modern microeconomics and/or macroeconomics is covered. Nature of economics as a social science, through the study of its historical development.

Econ 3351. Globalization: Examining India's Social and Economic Development. (IP; 4 cr; =[Mgmt 3351]; prereq 1111 or 1112 or #; offered when feasible; spring)

Same as Mgmt 3351. Observe and study the impact of globalization on the Indian economy. Examine the growing class divide between the middle and upper middle class and the lower class. Study the problem of mass poverty in India and its various ramifications such as child labor, lack of education and basic health care, and the inherent gender bias. Examine sustainable grass roots efforts to combat some of these problems. [Continuing Education course]

Econ 3501. Introduction to Econometrics. (M/SR; 4 cr; prereq 3201 or 3202, Stat 1601; spring, every year)

Designing empirical models in economics. Simple and multiple regression analysis. Violations of classical assumptions in regression analysis. Logit and probit models; simultaneous equation models and lag models. Emphasis on application techniques to economic issues.

Econ 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Econ 4101. Labor Economics I. (HDiv; 2 cr; prereq 3201 or #; fall, every year)

Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

Econ 4102. Labor Economics II. (SS; 2 cr; prereq 3201 or #; fall, every year)

Functioning and performance of the labor market. Heterodox explanations of labor market behavior. Labor demand applications.

Econ 4111. Mathematical Economics I. (M/SR; 2 cr; prereq 3201, 3202 or #; offered when feasible; fall, spring)

Application of mathematical methods to economic analysis. Mathematical formulations and solution of optimizing models pertaining to households and firms and of adjustments to disturbances.

Econ 4112. Mathematical Economics II. (M/SR; 2 cr; prereq 3201, 3202 or #; offered when feasible; fall, spring)

Topics include linear modeling, input-output analysis and linear programming, efficiency and exchange, comparative static analysis, and dynamic microeconomic and macroeconomic models.

Econ 4121. International Trade Theory. (SS; 2 cr; prereq 3201 or #; spring, every year)

Overview of why trade occurs, pattern of trade and international factor movement. Effect of trade and trade policy on the economy. Current topics in trade theory.

Econ 4131. International Finance. (SS; 2 cr; prereq 3202 or #; spring, every year)

Foreign exchange markets; theories of exchange rate determination; fixed vs. flexible rate systems; theories of balance of payments adjustments; international quantity of money theory; international reserves; international monetary system (past, present, and future); internal

and external balance, international economic policy coordination, international debt problem; effect of international sector on domestic growth and stability.

Econ 4501. Senior Research Seminar in Economics and Management. (SS; 2 cr [max 4 cr]; prereq sr or 3501 or #; full year course begins in fall sem; fall, every year)

Seminar on selected topics in economics and management. Guided research sessions familiarize students with literature in the field. Students are required to make a formal presentation on their research topic and attend presentations by their peers.

Econ 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Education Programs

(See Education [Ed]; Education, Elementary [EIEd]; Education, Secondary [SeEd]; and Wellness and Sport Science [WSS].)

UMM offers all students the opportunity to study education and its role in society. Courses with the “Ed” designator meet general education requirements, and enrollment in these courses is open and not limited to students pursuing teaching licensure.

The Division of Education offers a major and teaching licensure in elementary education (K–6) with specialty licensures in preprimary (age 3–grade 3); and middle level (grades 5–8) communication arts and literature, mathematics, science, and social studies; and K–8 world languages. (Fulfillment of these requirements leads to K–12 licensure in French, German, or Spanish.) Licensure of secondary school teachers is offered in chemistry (9–12), communication arts and literature (5–12), earth and space science (9–12), French (K–12), general science (5–8), German (K–12), instrumental music (K–12), life science (9–12), mathematics (5–12), physics (9–12), social studies (5–12), Spanish (K–12), visual arts (K–12), and vocal music (K–12). Students may elect to complete coursework leading to endorsement for head varsity coaches in Minnesota.

Teacher education at UMM is part of the life-long development of an effective teacher and includes the study of liberal arts disciplines and pedagogy, teaching, and other life experiences. UMM’s teacher education program is based on a belief that a successful teacher is one who reflects on teaching and makes instructional decisions that ensure student learning.

Division Structure and Course Descriptions

Teacher education at UMM uses personalized instruction and offers opportunities for regional and international student teaching. Teacher candidates are prepared to employ human, technological, and other resources in the effective instruction of diverse populations of learners. The program introduces prospective teachers to the teaching profession and prepares them to demonstrate:

1. *Knowledge* of themselves and of learners; liberal arts disciplines; diverse cultures, social organizations, and societies; human growth and development; communication and language; problem solving; and effective teaching and learning;
2. *Skill* in all aspects of teaching including setting goals and objectives; selecting appropriate content, activities, and materials; implementing effective lessons; assessing student learning; and evaluating oneself with the goal of continuous improvement;
3. *Dispositions* associated with effective teaching, including collaboration; ethics and integrity; equity and respect; efficacy and commitment to learning; responsibility; and enthusiasm and openness;
4. *Leadership* when addressing educational issues.

Admission requirements must be met and admission granted before students can enroll in courses in either the elementary or secondary teacher education programs. These admission requirements are set by UMM and the state of Minnesota. They are described under Admission to the Major in the Education, Elementary (EEd) section and Admission to the Program in the Education, Secondary (SeEd) section of this catalog.

Education (Ed)

This discipline is in the Division of Education. It is designed to meet general education requirements and is not limited to students pursuing teaching licensure.

Objectives—These courses are designed to offer students the opportunity to study education and its role in society.

Course Descriptions

Ed 1011. Beginning Sign Language I. (FL; 3 cr; prereq #; fall, every year)

Students develop a working vocabulary of conceptually based signs. Emphasis is on receptive abilities. Students develop an awareness of the history of sign language and explore various signing systems and their most common uses. [Continuing Education course]

Ed 1012. Beginning Sign Language II. (FL; 3 cr; prereq 1011; spring, every year)

Students develop a working vocabulary of conceptually based signs. Emphasis is on receptive as well as expressive abilities. Students develop an awareness of the history of sign language and deaf culture and explore various signing systems and their most common uses. A performance of the student's signing skills is evaluated. [Continuing Education course]

Ed 1020. English in the American University. (2 cr [max 4 cr]; intended for all international or non-native English speaking students currently attending the University of Minnesota, Morris; S-N only; fall, every year)

Supports international/non-native English speaking students new to academic requirements of American universities. Focuses on reading, discussions, and writing. Students use reading/writing requirements of other courses to satisfy reading/writing requirements for this course. Includes one-on-one work with instructor. [Continuing Education course]

Ed 1051. Comparative Education. (IP; 4 cr; offered when feasible; summer)

Critical thinking abilities and insight into other cultures developed through study of education in selected countries and the United States.

Ed 1111. Introduction to Deaf Education. (Hum; 2 cr; offered when feasible; fall, spring)

Designed to give students a basic understanding of how to educate the deaf. Emphasis is on learning about their language and culture and how to use that knowledge in working with the deaf in the classroom setting. [Continuing Education course]

Ed 1112. Reading With Deaf Learners. (2 cr; offered when feasible; fall, spring)

Methods and strategies used to teach deaf learners to read. Understanding how deaf learners achieve reading success. Assessment of reading problems in deaf children and selection of appropriate reading materials for deaf learners. [Continuing Education course]

Ed 1113. Global Deaf Perspectives. (1 cr; offered when feasible; summer)

Examination of deaf cultures and their portrayal in the United States and other countries in Europe, Africa, and Central America. Emphasis on varying global perspectives of the deaf in families, educational systems, the media, and society. [Continuing Education course]

Ed 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ed 2011. Intermediate Sign Language I. (FL; 3 cr; prereq 1012 or #; offered when feasible; fall, spring)

Students develop a working vocabulary of conceptually based signs. Emphasis is on receptive as well as expressive abilities. Students continue to develop an awareness of the history of sign language and deaf culture and explore various signing systems and their most common uses. A performance of the student's signing skills will be evaluated. [Continuing Education course]

Ed 2012. Intermediate Sign Language II. (FL; 3 cr; prereq 2011; offered when feasible; fall, spring)

Students develop a working vocabulary of conceptually based signs. Students interact with members of the deaf

community and participate in field trips. Students help educate the campus and surrounding communities about deaf people and their culture by presenting a performance at the end of the semester. [Continuing Education course]

Ed 2101. Foundations and Issues in Education. (1 cr; coreq 2111; fall, spring, summer, every year)
History, philosophy, and purposes of American education; teaching as a profession; issues and trends in education today; career opportunity and certification requirements in education.

Ed 2102. Introduction to Education in a Global Context. (IP; 2 cr; fall, spring, summer, every year)
Introduction to the teaching profession through application of a global perspective to the study of issues in education. It is recommended that this course be completed in combination with a preprofessional field experience in another country. [Continuing Education course]

Ed 2111. Tutor-Aide Practicum. (1 cr; coreq 2101; S-N only; fall, spring, summer every year)
Students complete 30 hours of preprofessional field experience in the schools.

Ed 2112. International Practicum in Elementary Education. (IP; 1-3 cr [max 3 cr]; IP [if taken for 2 or more cr]; S-N only; fall, spring, summer, every year)
Students complete 80 to 120 hours of preprofessional field experience in a school in another country. [Continuing Education course]

Ed 2113. International Practicum in Secondary Education. (IP; 1-3 cr [max 3 cr]; IP [if taken for 2 or more cr]; S-N only; fall, spring, summer, every year)
Students complete 80 to 120 hours of preprofessional field experience in a school in another country. [Continuing Education course]

Ed 2201. Perspectives on Young Adult Literature: Schooling, Society, and Culture. (Hum; 4 cr; offered when feasible; summer)
Exposure to multiple genres of young adult literature and brief introduction to various types of response to literature. Special emphasis on multicultural literature, the role of literature in forming moral and cultural values, using literature in the grade 5–12 classroom, and reader response theory and pedagogy. Students read, respond to, select, and evaluate young adult literature.

Ed 2301. Environmental Science and Place-Based Education. (Envt; 4 cr; A-F only; summer, every year)
Study of the topics, issues, and concepts of environmental science and place-based education while working with environmental specialists and interacting with elementary students at a wetland learning center.

Ed 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ed 3101. Ethics and Decision Making in Education. (E/CR; 4 cr; offered when feasible; summer)
Study of educational decision making in different settings through analysis and development of case studies, seminar discussion, and independent research, including interviews with decision makers and participation in meetings of policy-making agencies.

Ed 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ed 4101. Issues and Current Trends in Literacy and Language Education. (Hum; 4 cr; offered when feasible; summer)
Study of themes, issues, and current trends surrounding literacy education including historical foundations of current reading practices, changing definitions of literacy, ideologies that influence understanding and implementation of reading practices, and consideration of complexities of addressing societal literacy concerns.

Ed 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Education, Elementary (EIEd)

This discipline is in the Division of Education. A separate admissions process must be completed and admission granted before students can enroll in this program.

The elementary education major leads to Minnesota licensure as a teacher of grades K–6. Students obtaining a K–6 license must also be licensed in a specialty area. The six areas offered at UMM are 1) preprimary, 2) middle level communication arts and literature, 3) middle level mathematics, 4) middle level science, 5) middle level social studies, and 6) world languages K–8.

Objectives—Coursework in elementary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to understand central concepts, tools of inquiry, and structures of disciplines taught in the elementary school; understand children and adolescent development theory, individual and group motivation, and diversity among learners; create instructional opportunities adapted to learners of diverse cultural backgrounds and abilities; use instructional strategies that reflect personal knowledge of effective verbal, nonverbal, and media communication techniques; encourage development of critical thinking, problem solving, and performance skills; understand and use formal and informal methods of student assessment; and collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

Students pursuing Minnesota teaching licensure at the elementary K–6 level and specialty areas must have completed licensure requirements in the elementary teacher education program, and state and federally mandated examinations for new teachers. A minimum GPA of 2.50 is required overall, in licensure area(s), and in education courses. All courses that fulfill requirements for teaching licensure in elementary education (discipline, professional education, or other courses) must be completed with a grade of C- or higher. Required courses must be taken A-F unless they are offered S-N only.

Admission to the Major

During fall semester of the sophomore year, students attend a meeting to begin the application process. Applications must be submitted to the Elementary Education Admissions Committee by the end of the first week of spring semester for entry to the program fall semester of the junior year. Enrollment in the major is limited. The decision to admit is made during spring semester, before fall registration. The elementary education course sequence begins in fall semester.

Students transferring from another school must be admitted to UMM before admission to the elementary major can be offered. It is recommended that these students seek academic planning advice from a member of the elementary education faculty before the semester in which admission to the program is sought.

Requirements for admission include the following:

1. Successful completion (grade of C- or higher) of Psy 1061—Introduction to the Development of the Child and Adolescent (Psy 1051 is a prereq), Ed 2101—Foundations and Issues in Education, and Ed 2111—Tutor-Aide Practicum.
For students desiring more in-depth alternatives, Psy 3401—Developmental Psychology I: Child Psychology and Psy 3402—Developmental Psychology II: Adolescence may be substituted for Psy 1061—Introduction to the Development of the Child and Adolescent.
2. Completion of the Praxis I: Pre-Professional Skills Test (PPST).
3. A minimum GPA of 2.50 overall and in the elementary education major. No grade below C- will be accepted in licensure or education courses.
4. Approximately 60 credits completed by the end of the sophomore year.
5. Approval of the faculty based on an interview, recommendations, assessment of prior experience (especially with children and other cultures), and progress toward a degree.
6. Student must be admitted to UMM prior to program admission.

Student Teaching Requirements

1. Successful completion of the following EIED courses in the major:
EIED 3101, 3102, 3103, 3111, 4101, 4102, 4103, 4104, 4107, 4111, and 4112
Students must also complete either:
EIED 3211—Practicum II: Field Experience in a Preprimary Setting
EIED 3201—Preprimary Theory and Pedagogy
or
EIED 3212—Practicum II: Field Experience in a Middle Level Setting
EIED 3202—Middle Level Theory
Middle Level Methods course in area of specialty—EngE 4122, LanE 4123, MthE 4122, SciE 4122, or SScE 4122
2. A minimum GPA of 2.50 is required overall, in licensure area(s), and in education courses; no grade below C- will be accepted in licensure or education courses
3. Satisfactory completion of tutor aide and practicum experiences
4. Approval of teacher education faculty

Major Requirements

Prerequisite Courses:

Psy 1061—Introduction to the Development of the Child and Adolescent
Ed 2101—Foundations and Issues in Education
Ed 2111—Tutor-Aide Practicum

Program Year One:

EIED 3101—Teaching and Learning Strategies
EIED 3102—Reading Methods: Literacy and Language Instruction in the Elementary School
EIED 3103—Mathematics in the Elementary School
EIED 3111—Practicum I: Field Experience in the Elementary Classroom

Choose Specialty Area:

Preprimary: EIED 3201—Preprimary Theory and Pedagogy
and EIED 3211—Practicum II: Field Experience in a Preprimary Setting
or
Middle Level: EIED 3202—Middle Level Theory, EIED 3212—Practicum II: Field Experience in a Middle Level Setting,
and Middle School Methods Course (EngE 4122, MthE 4122, SciE 4122, SScE 4122,
or LanE 4123, which is taken fall semester of Program Year Two)

Program Year Two:

EIED 4101—Strategies for Inclusive Schooling
EIED 4102—Social Studies in the Elementary School
EIED 4103—Science in the Elementary School

- EIEd 4104—Language Arts and Literature in the Elementary School
- EIEd 4107—Health and Physical Education in the Elementary School
- EIEd 4111—Practicum III: Beginning Student Teaching
- EIEd 4112—Practicum IV: Experience in the Elementary School Classroom
- EIEd 4201—Directed Student Teaching in Primary and Intermediate Grades, *or*
- EIEd 4204—Directed Student Teaching in International School at the Primary and Intermediate Level
- EIEd 4901—The Teacher and Professional Development.

All courses required for a major in elementary education must be completed with a grade of C- or higher. Required courses must be taken A-F unless they are offered S-N only. A minimum GPA of 2.50 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Elementary Licensure Requirements

Students planning to teach in Minnesota elementary schools must meet the licensure requirements of the Minnesota Board of Teaching (BOT).

At the University of Minnesota, Morris, the following program is designed to meet the current BOT requirements. These licensure requirements are subject to change when the BOT implements new licensure rules.

1. All requirements for an elementary education major
2. Communication arts and literature: general education requirements for college writing and foreign language; Spch 1042 or 1052; additional English, any 11xx or above (Engl 3021 recommended)
3. Mathematics and Statistics: Math 1001 and Stat 1601, 2601, or 2611
4. Visual and performing arts: (two courses representing two different disciplines) studio art or art history (ArtS 1050 or Arth 1101 recommended), music (Mus 1041 or 1042 recommended), theatre (Th 1101 or 2111 recommended), or dance
5. Social studies: (two courses representing two different disciplines) anthropology (Anth 1111 recommended), economics (Econ 1111, 1112 recommended), political science (Pol 1201 recommended), history (Hist 1301 recommended), sociology (Soc 1101 recommended), geography (Geog 2001 recommended)
6. Science: (two courses representing two different disciplines, at least one with lab) physics, geology, biology, chemistry

7. Psy 1081—Drugs and Human Behavior
8. Successful completion of a cross-cultural field experience
9. A minimum GPA of 2.50 overall and in the elementary education major; no grade below C- will be accepted in licensure or education courses
10. A positive recommendation from the discipline and Division of Education
11. Passing scores on Praxis I and Praxis II and any other state mandated exams for new teachers

Note: Students in elementary education must complete licensure requirements and apply for licensure within seven years from time of admission to the licensure program. After seven years, all education courses previously taken become void and must be retaken for licensure.

Required courses must be taken A-F unless they are offered S-N only.

Requirements for Specialty Areas

Students seeking K–6 licensure must also obtain a specialty area license. Each specialty area requires a minimum of 28 credits. The six areas and their requirements are listed below.

1. Preprimary education (age 3 to grade 3): Th 2111; Psy 3401 and Psy 3521; Soc 3122; choose two additional courses from Psy 3112, Psy 3302, Psy 3501, Psy 3701, Psy 4101; EIEd 3201—Preprimary Theory and Pedagogy; and EIEd 3211—Practicum II: Field Experience in a Preprimary Setting. A minor in psychology is strongly recommended.
2. Middle level communication arts and literature (grades 5–8): Spch 3071; Engl 1131; choose four additional courses from Ed 2201 or Engl 2xxx or above (Engl 3021 recommended); EIEd 3202—Middle Level Theory; EIEd 3212—Practicum II: Field Experience in a Middle Level Setting; and EngE 4122—Methods of Teaching Communication Arts and Literature in the Middle School. A minor in English is strongly recommended.
3. Middle level mathematics (grades 5–8): Stat 1601, 2601, or 2611 (Stat 2611 recommended); Math 1101; Math 1102; three additional math courses at the 2xxx or above (Math 2111 recommended); EIEd 3202—Middle Level Theory; EIEd 3212—Practicum II: Field Experience in a Middle Level Setting; and MthE 4122—Methods of Teaching Mathematics in the Middle School. A minor in mathematics is strongly recommended.
4. Middle level social studies (grades 5–8): Hist 1301; Anth 1111; Econ 1xxx or above (Econ 1112 recommended); Pol 1xxx or above (Pol 1201 recommended); Soc 1xxx or above (Soc 1101 recommended); one additional course from Anth, Econ, Geog, Hist, Pol, or Soc (Geog 2001 recommended); EIEd 3202—Middle Level Theory; EIEd 3212—Practicum II: Field Experience in a Middle Level Setting; and SScE 4122—Methods of Teaching Social Studies in the Middle School. A minor in anthropology, economics, history, political science, or sociology is strongly recommended.

Division Structure and Course Descriptions

- Middle level science (grades 5–8): Biol 2101; Geol 1101; Chem 11xx or above (Chem 1101 recommended); Phys 1091 or Phys 1101; two additional courses from Ed 2301, Biol (Biol 2111 recommended), Chem (Chem 1102 recommended), Geol, or Phys (Phys 1092 or 1102 recommended); EIED 3202—Middle Level Theory; EIED 3212—Practicum II: Field Experience in a Middle Level Setting; and SciEd 4122—Methods of Teaching Science in the Middle School. Students are strongly encouraged to fulfill the General Science 5–8 licensure standards (see SeEd Licensure Area Requirements).
- World Languages K–8: complete the language content requirements as listed in the secondary education license area requirements (French K–12, German K–12, or Spanish K–12); EIED 3202—Middle Level Theory; EIED 3212—Practicum II: Field Experience in a Middle Level Setting; LanE 4123—Methods of Teaching Foreign Language K–12; and SeEd 4202—Directed Student Teaching in the Middle and Secondary School. Fulfillment of these requirements leads to K–12 licensure in French, German, or Spanish.

Students seeking a non-education major or minor should consult the catalog for requirements in the area of interest.

Course Descriptions

EIED 3101. Teaching and Learning Strategies. (4 cr; prereq admission to the elementary teacher education program; A-F only; A-F only; fall, every year)
Elementary school teaching and learning. Planning for instruction, learning theory, multicultural education, classroom management, use of technology in the classroom.

EIED 3102. Reading Methods: Literacy and Language Instruction in the Elementary School. (4 cr; prereq admission to elementary teacher education program; A-F only; fall, every year)
Beginning and advanced reading instruction in the elementary grades. Includes study of theory, issues, literacy frameworks, assessment, materials, organization, and instructional strategies to scaffold children's literacy development.

EIED 3103. Mathematics in the Elementary School. (3 cr; prereq admission to the elementary teacher education program; A-F only; fall, every year)
Standards, curriculum, assessment, and methodology for teaching mathematics in the elementary school. Includes the theoretical basis of methodology in mathematics and its application, measurement and evaluation, selection and use of instructional media and computer software, and meeting the needs of culturally diverse and special needs students.

EIED 3111. Practicum I: Field Experience in the Elementary Classroom. (1 cr; prereq admission to the elementary teacher education program; S-N only; fall, every year)
Field experience in the elementary classroom.

EIED 3201. Preprimary Theory and Pedagogy. (3 cr; prereq 3101, 3102, 3103, 3111; A-F only; spring, every year)
Developmental characteristics, organizational and instructional needs of preprimary and early elementary classrooms. Characteristics of effective preprimary and early elementary teachers. Required for student pursuing an elementary preprimary specialty.

EIED 3202. Middle Level Theory. (2 cr; prereq 3101, 3102, 3103, 3111; A-F only; spring, every year)

Developmental characteristics, organizational and instructional needs of pre-adolescent and adolescent level classrooms. Characteristics of effective middle level teachers. Required for student pursuing an elementary middle level specialty.

EIED 3211. Practicum II: Field Experience in a Preprimary Setting. (1 cr; prereq 3101, 3102, 3103, 3111; S-N only; spring, every year)

Field experience in preprimary or kindergarten setting.

EIED 3212. Practicum II: Field Experience in a Middle Level Setting. (1 cr; prereq 3101, 3102, 3103, 3111; S-N only; spring, every year)

Field experience in the middle level classroom.

EIED 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

EIED 4101. Strategies for Inclusive Schooling. (2 cr; prereq 3101, 3102, 3103, 3111; A-F only; fall, every year)

Strategies and techniques for developing inclusive learning environments. Emphasizes adaptations to accommodate students with mild, moderate, and severe disabilities. Overviews historically-situated legal, philosophical and programmatic changes leading toward inclusive models of education.

EIED 4102. Social Studies in the Elementary School. (2 cr; prereq 3101, 3102, 3103, 3111; A-F only; fall, every year)
Outcomes, content, integration strategies, and assessment of social studies instruction in the elementary curriculum.

EIED 4103. Science in the Elementary School. (2 cr; prereq 3101, 3102, 3103, 3111; A-F only; fall, every year)
Standards, curriculum, and assessment of elementary school science. Includes theoretical basis of methodology and its application, assessment, selection and use of instructional media and computer software, and meeting the needs of cultural diverse and special needs students.

EIED 4104. Language Arts and Literature in the Elementary School. (3 cr; prereq 3101, 3102, 3103, 3111; A-F only; fall, every year)

Theory, content, assessment, and strategies that support identification, selection, and use of materials and practices in the language arts and children's literature that foster children's language development and growth in reading, writing, speaking, listening, viewing, and visually representing.

EIED 4107. Health and Physical Education in the Elementary School. (1 cr; prereq 3101, 3102, 3103, 3111; A-F only; fall, every year)

Scope, sequence, and related activities in elementary health and physical education.

EIED 4111. Practicum III: Beginning Student Teaching. (2 cr; prereq 3101, 3102, 3103, 3111; S-N only; fall, every year)
Participation in in-service, teaching, and teaching-related activities in preparation for student teaching.

EIED 4112. Practicum IV: Experience in the Elementary School. (1 or [max 2 cr]; prereq 3101, 3102, 3103, 3111; S-N only; fall, every year)

Field experience in the elementary classroom.

EIEd 4201. Directed Student Teaching in Primary and Intermediate Grades. (HDIv; 10 cr; prereq 4101, 4102, 4103, 4104, 4111, 4112; S-N only; spring, every year)
Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in primary and intermediate grades under the guidance of a cooperating teacher and University supervisor.

EIEd 4202. Directed Student Teaching in Primary and Intermediate Grades. (1-16 cr [max 16 cr]; prereq #; S-N only; fall, spring, every year)

For students who need alternative or additional student teaching experience. Students demonstrate application of approaches to teaching and learning in primary and intermediate grades under guidance of a cooperating teacher and University supervisor.

EIEd 4204. Directed Student Teaching in International School at the Primary and Intermediate Level. (IP; 10 cr; prereq 4101, 4102, 4103, 4104, 4111, 4112; S-N only; spring, every year)
Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in primary and intermediate grades under the guidance of a cooperating teacher and University supervisor.

EIEd 4205. Directed Student Teaching in the Elementary School. (1-16 cr [max 16 cr]; prereq #; A-F only; fall, spring, every year)

For students from colleges that require A-F grading for student teaching through the Global Student Teaching Program. [Continuing Education course]

EIEd 4901. The Teacher and Professional Development. (2 cr; prereq 4201 or 4204 or #; A-F only; spring, every year)
Capstone experience. Professional development issues and philosophy of education, including portfolio assessment.

EIEd 4993. Directed Study. (1-5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Middle Education Methods Courses

These courses focus on the objectives, curricula, special methods, materials, and evaluation appropriate for teaching the various subject matter areas in the middle school. Students are required to complete methods course(s) in their licensure area(s). Methods courses must be successfully completed before student teaching in a specific field.

EngE 4122. Methods of Teaching Communication Arts and Literature in the Middle School. (1 cr; A-F only; spring, every year)

Objectives, curricula, special methods, materials, and evaluation appropriate for teaching communication arts and literature in the middle and secondary school.

LanE 4123. Methods of Teaching Foreign Language K-12. (4 cr; A-F only; fall, every year)

Objectives, curricula, special methods, materials, and evaluation appropriate for teaching foreign language in K-12.

MthE 4122. Methods of Teaching Mathematics in the Middle School. (1 cr; A-F only; spring, every year)

Objectives, curricula, special methods, materials, and evaluation appropriate for teaching mathematics in the middle school.

SciE 4122. Methods of Teaching Science in the Middle School. (1 cr; A-F only; spring, every year)

Objectives, curricula, special methods, materials, and evaluation appropriate for teaching science in the middle school.

SScE 4122. Methods of Teaching Social Science in the Middle School. (1 cr; A-F only; spring, every year)

Objectives, curricula, special methods, materials, and evaluation appropriate for teaching social science in the middle school.

Education, Secondary (SeEd)

This discipline is in the Division of Education.

A separate admissions process must be completed and admission granted before students can enroll in this program.

The secondary education program leads to Minnesota licensure as a teacher in specified liberal arts disciplines.

Objectives—Coursework in secondary education is designed to meet standards of effective practice required for licensure and provide prospective teachers with opportunities to understand central concepts, tools of inquiry, and structures of disciplines taught in the middle and secondary school; understand adolescent development theory, individual and group motivation and diversity among learners; create instructional opportunities adapted to learners from diverse cultural backgrounds and with exceptionalities; use instructional strategies that reflect personal knowledge of effective verbal and nonverbal communication techniques; encourage development of critical thinking, problem solving, and performance skills; understand and use formal and informal methods of student assessment; plan and manage instruction; engage in reflection and self-assessment; and collaborate with parents/guardians, families, school colleagues, and the community in an ethical manner.

To obtain a teaching license, an individual must have a major, a bachelor's degree, and have completed licensure requirements in the area(s) in which licensure is sought. UMM is approved to recommend teaching licensure in the following fields: chemistry (9-12), communication arts and literature (5-12), earth and space science (9-12), French (K-12), general science (5-8), German (K-12), instrumental music (K-12), life science (9-12), mathematics (5-12), physics (9-12), social studies (5-12), Spanish (K-12), visual arts (K-12), and vocal music (K-12).

Division Structure and Course Descriptions

Coursework required for licensure, in most cases, is not equivalent to a major. Consult an adviser in the discipline to determine major requirements.

Students planning to seek Minnesota teaching licensure at the secondary school level must complete licensure requirements in the discipline(s) of the subject(s) they intend to teach, the secondary teacher education program, and state and federally mandated examinations for new teachers. A minimum GPA of 2.50 is required overall, in licensure area(s), and in education courses. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced. All courses required for teaching licensure in secondary education (discipline, professional education, or other courses) must be completed with a grade of C- or higher. Required courses must be taken A-F unless they are offered S-N only.

Licensure Area Requirements

An equivalent honors course can be used to fulfill any of the following requirements.

Chemistry 9–12

Chem 1101—General Chemistry I
Chem 1102—General Chemistry II
Chem 2301—Organic Chemistry I
Chem 2302—Organic Chemistry II
Chem 2311—Organic Chemistry Lab I
Chem 2321—Introduction to Research
Chem 3101—Analytical Chemistry
Chem 3501—Physical Chemistry I
Biol 4211—Biochemistry
Biol 4611—Biochemistry Lab
Math 1101—Calculus I
Phys 1101—General Physics I

Communication Arts and Literature 5–12

Engl 1131—Introduction to Literature

One of two:

Engl 3001—Advanced Expository Writing
Engl 3005—Understanding Writing Theories and Practice

Engl 3021—Grammar and Language

Engl 3159—*Shakespeare is not required but is strongly recommended.*

One of two:

Engl 3301—U.S. Multicultural and Multiracial Literatures
Ed 2201—Perspectives on Young Adult Literature: Schooling, Culture, and Society

Spch 2101—Introduction to Theories of Speech Communication

Spch 3071—Practices of Speech Communication
Spch 4151—Argumentation: Theory and Practice

One of three:

Th 2211—Oral Interpretation (preferred)
Th 2111—Creative Drama with Children
Th 2221—Readers’ Theatre

Earth and Space Science 9–12

Geol 1001—Environmental Geology: Geology in Daily Life
Geol 1101—Physical Geology
Geol 2101—Mineralogy and Crystallography
Geol 2111—Igneous and Metamorphic Petrology
Geol 2121—Sedimentology and Stratigraphy
Geol 2141—Glacial and Quaternary Geology
Geol 2151—Historical Geology: Earth History and Changing Scientific Perspectives
Geol 3101—Structural Geology
Geol 3401—Geophysics
Geol 4901—Geology Senior Seminar
Geol 4902—Geology Senior Seminar Presentation
Math 1101—Calculus I
Phys 1052—The Solar System
Phys 1053—Introduction to Stars, Galaxies, and Cosmology

French K–12

Fren 2001—Intermediate French I
Fren 2002—Intermediate French II
Fren 2011—Introduction to French Phonetics
Fren 3001—Conversation and Composition
Fren 3011—Reading and Analysis of Texts
Fren 4011—Thème et Version

One course from Early Modern Studies Cluster:

Fren 3022—EMS: French Culture I: Medieval and Early Modern France
Fren 3023—EMS: French Literature I: Medieval and Early Modern France
Fren 3024—EMS: French Fairy Tale and the Fantastic
Fren 3025—EMS: Wonder and the Marvelous

One course from Modern Studies Cluster:

Fren 3032—MOS: French Culture II: Modern and Contemporary France
Fren 3033—MOS: French Literature II: Revolution, Romanticism, Modernity
Fren 3034—MOS: French Poetry and Music

One course from Francophone Studies Cluster:

Fren 3041—FRS: Francophone Worlds
Fren 3042—FRS: Contes Francophones
Fren 3043—FRS: Littérature Migrante
Fren 3044—FRS: L’Amérique Francophone

Study abroad is strongly encouraged.

General Science 5–8

Biol 2101—Evolution of Biodiversity (Biol 1111 prereq is waived)

Biol 2111—Cell Biology (Biol 1111 prereq is waived)

Chem 1101—General Chemistry I

Chem 1102—General Chemistry II

Geol 1101—Physical Geology

One of two:

Phys 1091—Principles of Physics I

Phys 1101—General Physics I

One of two:

Phys 1092—Principles of Physics II

Phys 1102—General Physics II

Prerequisites for Phys 1101 and 1102 include Math 1101—Calculus I and Math 1102—Calculus II.

German K–12 (offered when feasible; contact the Division of Education for more information)

Ger 2001—Intermediate German I

Ger 2002—Intermediate German II

Ger 2011—German Conversation and Composition

Ger 3011—Readings in German

Ger 3101—Survey of German Literature and Culture I

Ger 3102—Survey of German Literature and Culture II

Ger 3203—Periods: German Modernism

Ger 3611—Austrian Studies

Study abroad is strongly encouraged.

Instrumental Music K–12

Mus 1080—Jazz Combo

Mus 1101—Core Studies I: Music Theory I

Mus 1300—Concert Band

Mus 1330—Jazz Ensemble

Mus 3200-3223—Advanced Individual Performance Studies in wind, string, percussion, or keyboard*

Mus 3301—Instrumental Techniques: Woodwind

Mus 3302—Instrumental Techniques: Brass and Percussion

Mus 3303—Instrumental Techniques: Strings

Mus 3304—Vocal Techniques

Mus 3311—Conducting Techniques

Mus 3321—Instrumental Conducting and Materials

Mus 3331—Choral Conducting and Materials

Mus 4901—Senior Project

Instrument Repair Clinic

*Consult with Music faculty to determine performance studies requirements.

Life Science 9–12

Biol 1111—Fundamentals of Genetics, Evolution, and Development

Biol 2101—Evolution of Biodiversity

Biol 2111—Cell Biology

Biol 3121—Molecular Biology

Biol 3131—Ecology

Biol 3701—Biological Communications

Biol 4312—Genetics

Biol 4901—Senior Seminar or equivalent research presentation experience

Chem 1101—General Chemistry I

One of two:

Math 1021—Survey of Calculus

Math 1101—Calculus I

One of two:

Stat 1601—Introduction to Statistics

Stat 2601—Statistical Methods

Mathematics 5–12

Math 1101—Calculus I

Math 1102—Calculus II

Math 2101—Calculus III

Math 2111—Linear Algebra

Math 2202—Mathematical Perspectives

Math 2211—History of Math

Math 3211—Geometry

Math 3231—Abstract Algebra

Math 3411—Discrete and Combinatorial Mathematics

Stat 2611—Mathematical Statistics

Physics 9–12

Math 1101—Calculus I

Math 1102—Calculus II

Also recommended (required for Physics major):

Math 2101—Calculus III

Math 2401—Differential Equations

Phys 1101—General Physics I

Phys 1102—General Physics II

Phys 2101—Modern Physics

Phys 2201—Circuits and Electronic Devices

Phys 3301—Optics

Phys 3501—Statistical Physics

Phys 4101—Electromagnetism

Phys 4201—Quantum Mechanics

One of three:

Phys 4901—Senior Thesis (on research)

Phys 2993 or 3993 or 4993—Directed Studies in Research

Other research experience (e.g., UROP, internship) with discipline approval

Social Studies 5–12 (fulfills requirements for a social science major)

Anth 1111—Introductory Cultural Anthropology

Econ 1112—Principles of Macroeconomics

Econ 1951—Seminar for Social Science Majors

Geog 2001—Problems in Geography

Hist 1301—Introduction to United States History

Stat 1601—Introduction to Statistics or equivalent

Pol 1201—American Government and Politics

Psy 1051—Introduction to Psychology

Soc 1101—Introductory Sociology

Area of focus: The area of focus most often is demonstrated by completing the minor in that discipline. Consult the Social Science Major

Division Structure and Course Descriptions

section of the catalog and/or a social science adviser for more information on area of focus required courses. Area of focus plans should be on file with the Social Science Division Office by the end of a student's junior year.

Spanish K–12

Span 2001—Intermediate Spanish I
Span 2002—Intermediate Spanish II
Span 3001—Spanish Composition and Conversation I
Span 3002—Spanish Composition and Conversation II
Span 3101—Introduction to Hispanic Literature
Span 3211—Literature and Culture of Latin America
Span 3212—Literature and Culture of Spain
Study abroad is strongly encouraged.

Visual Arts K–12

ArtH 1101—Principles of Art
ArtH 1111—Ancient to Medieval Art
ArtH 1121—Renaissance to Modern Art
ArtS 1101—Basic Studio Drawing
ArtS 1102—Basic Studio Drawing
ArtS 1103—Basic Studio 2-D Design
ArtS 1104—Basic Studio 3-D Design
ArtS 1105—Basic Studio Discussion
ArtS 1106—Basic Studio Discussion

One of two:

ArtS 2500—Photography
ArtS 3005—Media Studies: Digital Imaging

One of two:

ArtS 3002—Artist's Books
ArtS 3006—Feminism: A Studio Perspective

Minimum 12 credits in one of the following media plus 6 credits in another and 3 credits in the third media:

Printmaking

ArtS 2201—Beginning Printmaking I
ArtS 2202—Beginning Printmaking II
ArtS 3200—Advanced Printmaking I
ArtS 3210—Advanced Printmaking II

Painting

ArtS 2301—Beginning Painting I
ArtS 2302—Beginning Painting II
ArtS 3300—Advanced Painting I
ArtS 3310—Advanced Painting II

Sculpture

ArtS 2401—Beginning Sculpture I
ArtS 2402—Beginning Sculpture II
ArtS 3400—Advanced Sculpture I
ArtS 3410—Advanced Sculpture II

Ceramics

ArtS 1050—Beginning Ceramics
ArtS 2050—Advanced Ceramics

Vocal Music K–12

Mus 1080—Jazz Combo
Mus 1101—Core Studies I: Music Theory I
Mus 1201—Piano Accompanying
One of two:
Mus 1310—University Choir
Mus 1320—Concert Choir
Mus 3200–3223—Advanced Individual Performance
Studies in voice, keyboard, or guitar*
Mus 3301—Instrumental Techniques—Woodwind
Mus 3302—Instrumental Techniques—Brass and Percussion
Mus 3303—Instrumental Techniques—Strings
Mus 3304—Vocal Techniques
Mus 3311—Conducting Techniques
Mus 3331—Choral Conducting and Materials
Mus 3352—Choral Arranging
Mus 4901—Senior Project

**Consult with Music faculty to determine performance studies requirements.*

Admission to the Program

During fall semester of the junior or senior year, students are expected to attend an application meeting to begin the application process. Enrollment in the program is limited. The decision to admit is made during spring semester, before fall registration. The secondary education course sequence begins in fall semester.

Students transferring from another school must be admitted to UMM before admission to the secondary program can be offered. It is recommended that these students seek academic planning advice from a member of the secondary education faculty before the semester in which admission to the program is sought.

Requirements for admission include the following:

1. Successful completion (grade of C- or higher) of Psy 1061—Introduction to the Development of the Child and Adolescent (Psy 1051 is a prereq), Ed 2101—Foundations and Issues in Education, and Ed 2111—Tutor-Aide Practicum

Though not required for admission, Psy 1081—Drugs and Human Behavior and Spch 1042—Public Speaking and Analysis or Spch 1052—Introduction to Public Speaking are required courses for licensure. It is recommended that students complete these courses prior to beginning the program.

For students desiring more in-depth alternatives, Psy 3401—Developmental Psychology I: Child Psychology and Psy 3402—Developmental Psychology II: Adolescence may be substituted for Psy 1061—Introduction to the Development of the Child and Adolescent.

2. Completion of the Praxis I: Preprofessional Skills Test (PPST).
3. A minimum GPA of 2.50 overall, in required licensure area(s), and in education courses. No grade below C- will be accepted in licensure or education courses.
4. Approximately 90 credits completed by the end of the junior year including demonstration of satisfactory progress in each licensure area.
5. Approval of the faculty based on an interview, recommendations, assessment of prior experience (especially with young people and other cultures), and progress toward a degree.
6. Student must be admitted to UMM prior to program admission.

Student Teaching Requirements

1. Successful completion of SeEd 4102—Teaching and Learning Strategies, SeEd 4103—Practicum Experience in the Middle and Secondary School, SeEd 4104—Teaching Diverse Learners, and SeEd 4105—Reading and Literacy in the Content Areas.
2. Successful completion of licensure area methods course(s).
3. Satisfactory completion of tutor aide and practicum experiences.
4. Spch 1042—Public Speaking and Analysis or Spch 1052—Introduction to Public Speaking.
5. A minimum GPA of 2.50 overall, in required licensure area(s), and in education courses. No grade below C- will be accepted in licensure or education courses.
6. Approval of teacher education faculty based on recommendations from faculty in the student's discipline.

Middle and Secondary School Licensure Requirements

Students planning to teach in Minnesota middle and secondary schools must meet the licensure requirements of the Minnesota Board of Teaching (BOT).

At the University of Minnesota, Morris, the following program is designed to meet the current BOT requirements. These licensure requirements are subject to change when the BOT implements new licensure rules.

1. Professional education courses
 - Ed 2101—Foundations and Issues in Education
 - Ed 2111—Tutor-Aide Practicum
 - SeEd 4102—Teaching and Learning Strategies
 - SeEd 4103—Practicum Experience in the Middle and Secondary School
 - SeEd 4104—Teaching Diverse Learners
 - SeEd 4105—Reading and Literacy in the Content Areas
 - SeEd 4201—Directed Student Teaching in the Middle and Secondary School

or SeEd 4204—Directed Student Teaching in International School at the Middle and Secondary Level

SeEd 4901—The Teacher and Professional Development.

2. Successful completion of licensure area methods course(s).
3. Psy 1061—Introduction to the Development of the Child and Adolescent and Psy 1081—Drugs and Human Behavior.
4. Spch 1042—Public Speaking and Analysis or Spch 1052—Introduction to Public Speaking.
5. A minimum GPA of 2.50 overall, in required licensure area(s), and in education courses. No grade below C- will be accepted in licensure or education courses.
6. Approval of teacher education faculty based on recommendations from faculty in the student's discipline.
7. Passing scores on Praxis I and Praxis II and any other state mandated exams for new teachers.

Note: Students in secondary education must complete licensure requirements and apply for licensure within seven years from time of admission to the licensure program. After seven years, all education courses previously taken become void and must be retaken for licensure.

Required courses must be taken A-F unless they are offered S-N only.

Course Descriptions

SeEd 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

SeEd 4102. Teaching and Learning Strategies. (4 cr; prereq admission to the secondary teacher education program; coreq 4103, 4104, 4105, methods; A-F only; fall, every year)
Concepts include teaching and learning strategies for middle and secondary classrooms, planning for lesson and unit instruction and assessment, learning theory, use of technology in the classroom, discipline, and classroom management.

SeEd 4103. Practicum Experience in the Middle and Secondary School. (4 cr; prereq admission to the secondary teacher education program; coreq 4102, 4104, 4105, methods; S-N only; fall, every year)
Field experience in the middle and secondary school.

SeEd 4104. Teaching Diverse Learners. (HDiv; 2 cr; prereq admission to the secondary teacher education program; coreq 4102, 4103, 4105, methods; A-F only; fall, every year)
Study of teaching/learning in diverse settings.
Topics include inclusive/special education; multiple intelligences/learning styles; multicultural education; race, gender, sexual orientation, disability, culture, and class; effects of inequity on schooling; preventing and responding to prejudice and discrimination; and intercultural communication.

Division Structure and Course Descriptions

SeEd 4105. Reading and Literacy in the Content Areas. (2 cr; prereq admission to the secondary teacher education program; coreq 4102, 4103, 4104, methods; A-F only; fall, every year)
Study of how teachers in the various academic disciplines can support reading and literacy in their classrooms and use reading and literacy to enhance learning in the disciplines. Topics include theory and instructional strategies in the areas of reading comprehension, fluency, and vocabulary development.

SeEd 4201. Directed Student Teaching in the Middle and Secondary School. (HDiv; 10 cr; prereq 4102, 4103, 4104, 4105, methods, Spch 1042 or Spch 1052; S-N only; spring, every year)
Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

SeEd 4202. Directed Student Teaching in the Middle and Secondary School. (1-16 cr [max 16 cr]; prereq #; S-N only; fall, spring, every year)
For students who need alternative or additional student teaching experience. Students demonstrate application of approaches to teaching and learning in middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

SeEd 4204. Directed Student Teaching in International School at the Middle and Secondary Level. (IP; 10 cr; prereq 4102, 4103, 4104, 4105, methods, Spch 1042 or Spch 1052; S-N only; spring, every year)
Students teach for a period of 11 weeks demonstrating application of approaches to teaching and learning in the middle and secondary grades under the guidance of a cooperating teacher and University supervisor.

SeEd 4205. Directed Student Teaching in the Secondary School. (1-16 cr [max 16 cr]; prereq #; A-F only; fall, spring, every year)
For students from colleges that require A-F grading for student teaching through the Global Student Teaching Program. [Continuing Education course]

SeEd 4901. The Teacher and Professional Development. (2 cr; prereq 4201 or 4204 or #; A-F only; spring, every year)
Capstone experience. Professional development issues and philosophy of education, including portfolio assessment.

SeEd 4993. Directed Study. (1-5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Middle and Secondary Education Methods Courses

These courses focus on the objectives, curricula, special methods, materials, and evaluation appropriate for teaching the various subject matter areas in the middle and secondary school. Students must complete methods course(s) in their licensure area(s). Methods courses are taken concurrently with secondary education block courses—SeEd 4102, 4103, 4104, 4105—and must be successfully completed before student teaching in a specific field.

ArtE 4123. Methods of Teaching Art K-12. (4 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching art in K-12.

EngE 4121. Methods of Teaching Communication Arts and Literature in the Middle and Secondary School. (4 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching communication arts and literature in the middle and secondary school.

LanE 4123. Methods of Teaching Foreign Language K-12. (4 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching foreign language in K-12.

MthE 4121. Methods of Teaching Mathematics in the Middle and Secondary School. (4 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching mathematics in the middle and secondary school.

MusE 4123. Methods of Teaching Music K-12. (3 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching music in K-12.

MusE 4124. Multicultural Music for the K-12 Music Educator. (1 cr; prereq #; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching multicultural music in K-12.

SciE 4121. Methods of Teaching Science in the Middle and Secondary School. (4 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching science in the middle and secondary school.

SScE 4121. Methods of Teaching Social Science in the Middle and Secondary School. (4 cr; A-F only; fall, every year)
Objectives, curricula, special methods, materials, and evaluation appropriate for teaching social science in the middle and secondary school.

English (Engl)

This discipline is in the Division of the Humanities. English is the study of literature and language—its historical, imaginative, and intellectual development.

Objectives—The English program engages students in the study of primarily British and American literature of different periods, with an emphasis on various approaches to literary study. Students learn to discuss, orally and in writing, what they have read: how the author has structured the text, and how literary language achieves its effects and directs the reader's response to the text. The major offers both broad exposure to and in-depth study of literature and language, as well as courses in creative and expository writing. English courses combine analysis and writing to teach students to be effective critical and imaginative readers and writers.

Major Requirements

Major requirements include a minimum of 10 courses (40 credits).

Prerequisite courses

Engl 1011—College Writing or equivalent (not included in the 40 credits for the major)

Engl 1131—Introduction to Literature

Survey courses

At least three courses from:

Engl 2201—British Literature Survey I

Engl 2202—British Literature Survey II

Engl 2211—American Literature Survey I

Engl 2212—American Literature Survey II

Additional requirements and electives

One course at 2xxx or above other than 2201, 2202, 2211, or 2212, or one course in Hum 1xxx-4xxx.

Five courses at 3xxx or above, including at least one Research Seminar at 4xxx.

One of the 10 courses in the major must have an HDiv designator at 2xxx or above.

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the major requirements. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Minor Requirements

Minor requirements include a minimum of five courses (20 credits).

Prerequisite courses

Engl 1011—College Writing or equivalent (not included in the 20 credits for the minor)

Engl 1131—Introduction to Literature

Survey courses

Take two or more courses from:

Engl 2201—British Literature Survey I

Engl 2202—British Literature Survey II

Engl 2211—American Literature Survey I

Engl 2212—American Literature Survey II

Additional requirements and electives

Take two or more courses from the following, one of which must be 3xxx or 4xxx:

Engl 2xxx

Engl 3xxx

Engl 4xxx

One of the five courses in the minor must have an HDiv designator at 2xxx or above.

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in communication arts and literature 5–12 should refer to the Education, Secondary (SeEd) section of this catalog. Students completing the course requirements for licensure in Communication Arts/Literature are strongly encouraged to earn an English major. The licensure requirements alone will not yield a major.

Course Descriptions

Engl 1001. Fundamentals of Writing I. (4 cr; completion of both 1001, 1002 meets College Writing requirement; fall, every year) Intensive practice in the fundamentals of writing. Students learn and apply strategies for generating, organizing, revising, and editing their writing.

Engl 1002. Fundamentals of Writing II. (CW; 4 cr; prereq 1001; spring, every year) Continuation of Engl 1001. Prepares students for academic writing by continuing coverage of basic writing skills and incorporating coverage of College Writing goals. Engl 1001 and 1002 may be taken in place of College Writing to fulfill the College Writing requirement.

Engl 1011. College Writing. (CW; 4 cr; fall, spring, every year) Practice in academic writing, with special emphasis on argumentation, reading closely and critically for the purposes of scholarly analysis, responding to and making use of the work of others, and drafting and revising texts.

Division Structure and Course Descriptions

Engl 1131. Introduction to Literature. (Hum; 4 cr; prereq 1011 or equiv; fall, spring, every year)

Introduction to the study of fiction, poetry, and drama. Emphasis on gaining basic skills of analysis. A prerequisite to advanced courses in English.

Engl 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Engl 2011. Introduction to Poetry and Poetic Language. (Hum; 4 cr; prereq 1011 or equiv; fall, spring)

An introduction to the techniques of close reading and the analysis of poetry. Emphasis on appreciating and understanding poetic form.

Engl 2012. Introduction to Fiction. (Hum; 4 cr; prereq 1011 or equiv; offered when feasible; fall)

An introduction to critical reading and analysis of fiction (novels and/or short stories).

Engl 2013. Introduction to Drama. (Hum; 4 cr; prereq 1011 or equiv; offered when feasible; fall)

An introduction to critical reading and analysis of dramatic literature.

Engl 2014. Introduction to Popular Literature. (Hum; 4 cr; prereq 1011 or equiv; offered when feasible; fall)

Introduction to popular literature in a variety of styles and forms with emphasis on analysis and context.

Engl 2031. Gender in Literature and Culture. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible)

Introduction to literary and cultural representations of gender. Emphasis on the intersections between power and the social relations of gender, race, class, and sexuality.

Engl 2041. Introduction to African American Literature. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible; spring)

Introduction to issues and themes in African American literature and culture, with emphasis on historical and cultural context.

Topics in Writing: *Study of a topic or method(s) of writing not normally covered by other English courses.*

Engl 2106. Topics in Writing: The Environmental Imagination: Reading and Writing about the Natural World. (Env; 4 cr; prereq 1011 or equiv; fall, spring)

Writing about the environment. Students learn to use the rich possibilities of language to express their responses to nature and convey to others the importance of close contact with the natural world. Readings in poetry and prose, discussion of technique, and experimentation with a variety of styles and literary forms.

Engl 2121. Topics in Writing: Introduction to Creative Writing. (ArtP; 4 cr; prereq 1011 or equiv; fall, every year)

Introduction to the basic elements of creative writing, including exploration of poetry, story, and journal writing. Practice with techniques such as dialogue, description, voice, and style.

Engl 2161. Topics in Writing: News Writing and Reporting. (Hum; 4 cr; prereq 1011 or equiv; fall, spring)

Introduction to news writing and reporting skills necessary for print and broadcast journalism.

Engl 2201. British Literature Survey I. (Hum; 4 cr; prereq 1011 or equiv, 1131; fall, every year)

Readings in English poetry, prose, and/or drama from the beginnings to the 18th century. Specific authors vary.

Engl 2202. British Literature Survey II. (Hum; 4 cr; prereq 1011 or equiv, 1131; spring, every year)

Readings in English poetry, prose, and/or drama from the 18th century to the present. Specific authors vary.

Engl 2211. American Literature Survey I. (Hum; 4 cr; prereq 1011 or equiv, 1131; fall, spring)

Study of important texts, canonical and non-canonical, and important periods and movements that define the colonial and U.S. experience up to 1865.

Engl 2212. American Literature Survey II. (Hum; 4 cr; prereq 1011 or equiv, 1131; fall, spring)

Study of selected historical and literary texts in U.S. literature, canonical and non-canonical, from 1865 to the present.

Engl 2311. American Indians of the Great Plains: Victims and Victors. (HDiv; 4 cr; =Anth 2311); offered when feasible; summer)

Same as Anth 2311. Government efforts to “civilize” American Indians and Indians’ resistance to these efforts. Course materials address indigenous opposition to the government’s assimilating forces. Travel to important sites of American Indian resistance on the Great Plains. [Continuing Education course]

Engl 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Engl 3001. Advanced Expository Writing. (Hum; 4 cr; prereq #; fall, spring)

Formal training in expository writing, with special attention to the ways that context and audience affect writers’ stylistic choices.

Engl 3005. Understanding Writing: Theories and Practices.

(Hum; 4 cr; prereq 1011 or equiv, soph standing, #, coreq IS 3720 for students working in the Writing Room; fall, every year) Introduction to composition theory: generating, composing, revising, and responding to writing; conventions across disciplines; strategies for teaching and tutoring writing. Weekly short assignments; three formal papers, written and revised in stages; oral presentation of research. Required for first-semester Writing Room staff.

Engl 3012. Advanced Fiction Writing. (ArtP; 4 cr; prereq #; offered when feasible; fall, spring)

For experienced writers. Focus on developing skills and mastering creative and technical elements of writing fiction.

Engl 3014. Advanced Poetry Writing. (ArtP; 4 cr; prereq #; offered when feasible; spring)

For experienced writers. Focus on developing skills and mastering creative and technical elements of writing poetry.

Engl 3015. Writing Poetry for the 21st Century. (ArtP; 4 cr; prereq 1011 or equiv; offered when feasible; spring)

A creative writing class. Practice with the different elements of poetry—sound, rhythm, imagery, voice, line—and exploration of the ways contemporary poets use and transform traditional forms and techniques.

Engl 3021. Grammar and Language. (Hum; 4 cr; fall, every year)

Study of the English language. Historical development and current structure. Includes language variation and change, social history of language, phonology, syntax,

semantics, development of English grammar, prescriptive versus descriptive grammar, and contemporary theories of grammar.

Engl 3032. Creative Nonfiction. (ArtP; 4 cr; prereq 1011 or equiv; offered when feasible; spring)

For experienced writers. Focus on understanding and practicing the rhetorical and stylistic choices available to writers of creative nonfiction, especially decisions about structure, pacing, language, style, tone, detail, description, and narrative voice.

Engl 3052. Novels of Charles Dickens. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

An overview of Dickens' novels, with attention to historical contexts and to some critical studies of his work.

Engl 3142. 18th-Century British Fiction. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible; spring)

The origins of the British novel: experiments with the new form, influence of earlier genres, evolution of formal realism. Authors may include Austen, Burney, Fielding, Richardson, and Sterne.

Engl 3151. Writing Revolution. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; spring)

Literary analysis of fiction, non-fiction, poetry, and drama that promoted, commented on, or responded to the American Revolution. Writers include Jefferson, Franklin, de Crevecoeur, Paine, Tyler, Freneau, Wheatley, Equiano, Rowson, Brown, Irving, and Child. Focus on the literary construction of national identity and debates about human rights, individualism, and westward colonization.

Engl 3152. 19th-Century British Poetry. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; spring)

Studies of the Romantic poets and their Victorian inheritors; their momentous influence is read in the context of political and industrial revolutions, crises of faith, and the redefinition of culture.

Engl 3153. Gothic Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; fall)

The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

Engl 3154. 19th-Century British Fiction. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

The rise of the novel to respectability and prominence in Britain from the Romantics to the Victorians.

Engl 3155. 20th-Century British Fiction. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Major novelists from the Modernist period and after, focusing on the historical context of the new challenges to literary tradition.

Engl 3156. Modern Irish Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; spring)

The poetry, fiction, and drama of Irish writers from 1890–1927, with attention to the ways that literature shaped a national identity.

Engl 3157. English Renaissance Drama. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Provides students with a sense of the literary, historical, and imaginative contexts surrounding Early Modern

Theatre. Students read Medieval, Elizabethan, and Jacobean dramas, with special attention to the works of Shakespeare's contemporaries (e.g. Marlowe, Jonson, Caryl, Middleton, Webster).

Engl 3159. Shakespeare. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; spring, every year)

A careful reading of a representative selection of Shakespeare's plays, with attention to their historical context, the poetic and dramatic aspects of Shakespeare's art, and a variety of approaches to his work.

Engl 3161. Medieval Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; fall, spring)

Early and later medieval prose, poetry, and drama produced and/or widely read in England from about 700–1500.

Engl 3162. Chaucer. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Concentrating on the *Canterbury Tales* and also some of Chaucer's shorter poetry. Students study the writing of this influential poet—especially his range of genres and language—and explore his 14th century context (e.g., politics, plague, antifeminism, anticlericalism, peasant rebellions).

Engl 3163. Life in a Medieval City: Literature and Culture in York, 700–1500. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212 or #: offered when feasible; summer)

Travel to York, England, to study the literature and history of the city from Anglo-Saxon times to the end of the Middle Ages. Focus on the role that York played as the second city of medieval England, emphasizing the diverse cultural influences on the city. Day trips to historically significant sites in the vicinity of York. [Continuing Education course]

Engl 3164. Fitzgerald and Hemingway. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Study of selected short stories, essays, and novels of F. Scott Fitzgerald and Ernest Hemingway with attention given to their role in shaping modern American concepts of masculinity, wealth, and what it means to be "American."

Engl 3166. Postcolonial Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Study of literature as site of cultural conflict during and after imperial encounters, from the perspectives of both colonizers and colonized peoples. Particular focus on Britain and its former colonies.

Engl 3221. Development of the Novel in the United States.

(Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Study of the development of the American novel in the 19th and 20th centuries.

Engl 3261. Modern British and American Poetry. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible; fall)

A study of the continuities and break with traditions in 20th century poetry. Focus on innovations and experiments in form and theme.

Engl 3262. 20th-Century American Poetry: From Modern to Contemporary. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible; fall)

Study of the radical shifts in poetry and poetics in 20th-century America. Exploration of the ways that poets such as Robert Lowell, Adrienne Rich, Frank O'Hara, Denise Levertov, Allen Ginsberg, James Wright, and Sylvia

Division Structure and Course Descriptions

Plath broke with modernist conventions and New Critical aesthetics and opened the field for the poetry of the late 20th and early 21st centuries.

Engl 3281. The Literature of Slavery. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible; fall)
Study of fictional and non-fictional writing about chattel slavery in the United States. Readings include 19th-century works written to oppose or support slavery and 20th-century works written to understand slavery and its effects.

Engl 3301. Multicultural Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible; fall)
Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

Engl 3311. American Indian Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)
Study of American Indian literature written in English. Particular attention given to language, identity, land, and sovereignty.

Engl 3331. African American Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)
Study of African American literature. Particular attention given to issues of gender, class, power, “passing,” and the racialized body.

Engl 3411. Critical Approaches to Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; fall)
An introduction to the major schools of literary theory and cultural analysis; particular attention to the ways in which the dialogue and debate between these approaches define the discipline of literary criticism.

Engl 3451. Shakespeare’s England. (Hum; 4 cr; =[Th 3451]; offered when feasible; summer)
Same as Th 3451. A study-abroad course in London and Stratford that concentrates on Shakespeare’s plays in performance. Exploration of the relationship between plays as written scripts and the decisions directors and actors make when they stage productions. [Continuing Education course]

Engl 3501. The American West Revisited. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)
A selection of readings that introduces and challenges the concept of the “frontier” as uncivilized land open for acquisition.

Engl 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Research Seminar: A research-based study of a literary subject that forms a capstone experience for majors.

Engl 4004. Research Seminar: Old English Literature and Language. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)
Prose and poetry of early medieval England (650–1100) in translation and in Old English (which is studied), with attention to material (manuscripts) and cultural contexts and to reception history.

Engl 4008. Research Seminar: African American Literature, Culture, Politics, 1890–1914. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)
This seminar uses selected literary texts, primary historical sources, and theoretical materials to examine

the literary and cultural movements undertaken by African Americans during what is popularly called the “nadir” in their history. Authors may include Frances Harper, W.E.B. DuBois, Pauline Hopkins, James Weldon Johnson, and Charles Chesnut.

Engl 4012. Research Seminar: Imagining the Earth. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)

Study of imaginative writing (poetry and prose) about the earth, and an examination of the ways that language transforms or shapes our perceptions of the natural world. In addition to the primary literary works, students read selections about our understanding of the natural world from science, philosophy, and ecocriticism.

Engl 4015. Research Seminar: James Joyce. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)

Joyce’s *Dubliners*, *A Portrait of the Artist as a Young Man*, and *Ulysses*, with attention to the biographical and historical contexts.

Engl 4016. Research Seminar: Women and the Market in 19th-Century America. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)
Popular writing by American women in the historical context of industrial expansion, the development of modern conceptions of home and workplace as separate spheres, and the emergence of U.S. consumer culture.

Engl 4017. Research Seminar: Tricksters—Conjurers in American Indian and African American Literature. (HDiv; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)

Study of tricksters and conjurers in American Indian and African American literature, in particular their ability to maintain traditional practices and subvert the dominant culture and imposed cultural norms. Special attention given to cultural and historical contexts and questions of power, identity, cultural difference, and assimilation.

Engl 4019. Research Seminar: Rewriting Shakespeare for Film and Stage. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)

Study of plays and films from the Restoration until today that involve a rewriting or revision of a Shakespearean play. Through detailed analysis of these revisions, students explore questions about the authenticity of the Shakespearean “original” and how people from other time periods have appropriated his plays for their own purposes.

Engl 4021. Research Seminar: British Literature of the Fin de Siecle. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)

Study of literature at the end of the 19th century in Britain, including such topics as the widening split between “literature” and popular culture, the redefinition of realism, and the crisis of sexuality. Reading includes fiction by Conrad, Haggard, Hardy, Stoker, Wells, and Wilde, as well as recent criticism and historiography.

Engl 4022. Research Seminar: Rhetoric and Narration. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible; spring)

Study of intersections between rhetoric and literary criticism, theories of narration and authorship as rhetorical acts, and the ethics of fiction; focused

through discussion of novels from a variety of historical periods and geographical areas.

Engl 4023. Research Seminar: Nationalism and Irish Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212, #; offered when feasible)

Examination of 20th-century Irish literature through the lens of cultural nationalism. How questions of language, race, culture, and colonial history make the idea of Ireland problematic. Exploration of a diverse host of writers interested in Irish myths, ideals, and identities with research from Irish and postcolonial studies.

Engl 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

European Studies (ES)

This is an interdisciplinary major under the authority of the vice chancellor for academic affairs and dean. The program is administered by the coordinator of European studies.

Objectives—The purpose of the European studies program is to acquaint students with the culture and society of Europe from the Middle Ages to the present as well as Europe’s classical antecedents. The study of modern Europe reflects recent changes in Central/Eastern Europe and Russia. The approach is interdisciplinary, drawing on various fields of study.

Major Requirements

Major requirements include language proficiency in French, German, or Spanish equivalent to that required for the completion of the course numbered 2002 in the language. (Students planning to pursue advanced courses in French, German, or Spanish should note that proficiency beyond 2002 is sometimes a prerequisite to some of the courses listed below.) Equivalent proficiency in European languages not offered at UMM may also be used to satisfy this requirement.

In addition, 48 credits must be selected from the courses listed below, with a maximum of 16 of the credits in any one discipline.

1. Students develop a coherent program and a plan of study in consultation with their major advisers. Advisers normally are faculty with a specialty in an appropriate area. Upon approval by the advisers, the program and plan are forwarded to the vice chancellor for academic affairs for information.
2. Any directed study course for which an instructor is available is acceptable provided the subject matter is appropriate.
3. The courses listed below as well as courses in other disciplines are acceptable provided the subject matter is appropriate.

4. Students are encouraged to spend a period of time in Europe pursuing conventional coursework, independent studies, or other study abroad programs.

Note: Students planning to major in European studies must register with the vice chancellor for academic affairs and dean.

A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Course Descriptions

Arth 1121. Renaissance to Modern Art. (FA; 4 cr; spring, every year)

Survey of the major works of art of western Europe and the United States from 1400 to the present.

Arth 3142. Art of the Italian Renaissance, 1300–1520. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

A variety of methods (including stylistic, gender, and contextual theories) are used to explore the painting and sculpture of such artists as Giotto, Donatello, Leonardo, Raphael, and Michelangelo.

Arth 3161. 16th-Century Italian Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, odd years)

The stylistic and theoretical differences evidenced in the fascinating trends of Mannerism and Venetian Renaissance art.

Arth 3171. Baroque Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

A sociohistorical consideration of the stylistic and thematic diversity present in the works of such 17th-century masters as Caravaggio, Bernini, Velazquez, Rembrandt, and Vermeer.

Arth 3201. 19th-Century European Art through Post-Impressionism. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

Survey of major movements from Neoclassicism through Romanticism, Realism, and Impressionism to Post-Impressionism. Attention is given to iconographical and formal analysis as well as to the social conditions in which artists lived and worked.

Arth 3211. Early Modernist Art: Symbolism to Surrealism. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; spring, even years)

Survey of the major early modernist movements from Symbolism through Cubism, Futurism, Expressionism, Constructivism, De Stijl, and the Bauhaus to Surrealism. Attention is given to theories of modern art as well as to formal and iconographical analyses and to the social conditions in which modern art was created and experienced.

Arth 3281. Women and Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

A historical survey of women’s roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

Arth 3291. Facing the Past: Portraiture and Social History. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, spring)

This seminar examines functions and formats of portraits created primarily in Western Europe between 1400–1800, in order to gain greater insight as to how various social identities (such as that of husband and wife, child, friend, and freak of nature) were visually constructed and verbally interpreted.

Division Structure and Course Descriptions

Econ 3131. Comparative Economic Systems. (IP; 2 cr; prereq 1111, 1112 or #; offered when feasible; fall, spring)

Comparison of the theory and functioning of the major economic systems of the world; economic reform in capitalist and socialist economies.

Econ 4121. International Trade Theory. (SS; 2 cr; prereq 3201 or #; spring, every year)

Overview of why trade occurs, pattern of trade, and international factor movement. Effect of trade and trade policy on the economy. Current topics in trade theory.

Engl 2201. British Literature Survey I. (Hum; 4 cr; prereq 1011 or equiv, 1131; fall, every year)

Readings in English poetry, prose, and/or drama from the beginnings to the 18th century. Specific authors vary.

Engl 2202. British Literature Survey II. (Hum; 4 cr; prereq 1011 or equiv, 1131; spring, every year)

Readings in English poetry, prose, and/or drama from the 18th century to the present. Specific authors vary.

Engl 3153. Gothic Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; fall)

The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

Engl 3154. 19th-Century British Fiction. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

The rise of the novel to respectability and prominence in Britain from the Romantics to the Victorians.

Engl 3155. 20th-Century British Fiction. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible) Major novelists from the Modernist period and after, focusing on the historical context of the new challenges to literary tradition.

Engl 3156. Modern Irish Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; spring)

The poetry, fiction, and drama of Irish writers from 1890–1927, with attention to the ways that literature shaped a national identity.

Engl 3157. English Renaissance Drama. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Provides students with a sense of the literary, historical, and imaginative contexts surrounding Early Modern Theatre. Students read Medieval, Elizabethan, and Jacobean dramas, with special attention to the works of Shakespeare's contemporaries (e.g. Marlowe, Jonson, Cary, Middleton, Webster).

Engl 3159. Shakespeare. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; spring, every year)

A careful reading of a representative selection of Shakespeare's plays, with attention to their historical context, the poetic and dramatic aspects of Shakespeare's art, and a variety of approaches to his work.

Engl 3162. Chaucer. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; offered when feasible)

Concentrating on the *Canterbury Tales* and also some of Chaucer's shorter poetry. Students study the writing of this influential poet—especially his range of genres and language—and explore his 14th century context (e.g., politics, plague, antifeminism, anticlericalism, peasant rebellions).

Fren 1302. French Cinema. (IP; 4 cr; =[Hum 1302]; prereq #; fall, even years)

Same as Hum 1302. The history of filmmaking in France from the Lumière brothers to the present; introduction to major trends in film theory. All films have English subtitles. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Fren 1303. Paris as Text/Image/Sound. (IP; 4 cr; =[Hum 1303]; prereq #; offered when feasible; fall, spring)

Same as Hum 1303. Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Texts by Balzac, Baudelaire, Hemingway, Stein, and others. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Fren 1304. French Women Authors in Translation. (IP; 4 cr; =[Hum 1304]; prereq #; fall, odd years)

Same as Hum 1304. French women's movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Fren 3011. Reading and Analysis of Texts. (Hum; 4 cr; prereq 3001 or #; spring, every year)

Introduction to representative literary works of France and the French-speaking world. Development of ease in reading French; introduction to methods for analyzing its style and meanings.

Fren 3022. Early Modern Studies: French Culture I: Medieval and Early Modern France. (Hist; 4 cr; prereq or coreq 3011 or #; offered when feasible; fall)

This course traces the history of French culture from the Middle Ages until the French Revolution; it examines the geography, language, and institutions of medieval and early modern France. Meets Early Modern requirement in French major.

Fren 3023. Early Modern Studies: French Literature I: Medieval and Early Modern France. (Hum; 4 cr; prereq or coreq 3011 or #; offered when feasible; spring)

Survey of French literature from the Middle Ages to the Enlightenment; a study of the successive ideals of feudalism, Renaissance knowledge and lyricism, classical reason and unreason, and the "Rights of Man." Meets Early Modern requirement in French major.

Fren 3024. Early Modern Studies: French Fairy Tale and the Fantastic. (Hum; 4 cr; prereq or coreq 3011 or #; spring, odd years)

Study of the marvelous and the fantastic from the 17th century to the end of the 19th century. Readings from Charles Perrault, Mme. Leprince de Beaumont, Mme. d'Aulnoy, Guy de Maupassant, and others. Meets Early Modern requirement in French major.

Fren 3025. Early Modern Studies: Wonder and the Marvelous. (Hum; 4 cr; prereq or coreq 3011 or #; spring, even years)

Examination of "le merveilleux" in French literature in medieval and early modern texts. Examples are taken from the work of Marie de France, Rabelais, Ambroise Paré, Descartes, and several baroque dramatists. Meets Early Modern Requirement in French major.

Fren 3032. Modern Studies: French Culture II: Modern and Contemporary France. (IP; 4 cr; prereq or coreq 3011 or #; fall, even years)

A study of French culture and history from the French Revolution to the present, and France's fitful development as a modern, multicultural democracy. Meets Modern requirement in French major.

Fren 3033. Modern Studies: French Literature II: Revolution, Romanticism, Modernity. (Hum; 4 cr; prereq or coreq 3011 or #; spring, odd years)

French literature from the Enlightenment to the present. A chronological survey examines the human condition as shaped by a new awareness of the role of individual agency in shaping history, the creative self, and the unconscious. Meets Modern requirement in French major.

Fren 3034. Modern Studies: French Poetry and Music. (Hum; 4 cr; prereq or coreq 3011; spring, odd years)

Survey of French poetry and music with emphasis on 19th and 20th century poetry and 20th–21st century music. Studying music enhances understanding of the fundamentals of verse, including rhyme, meter, and sound. Meets Modern Requirement in French major.

Fren 3043. Francophone Studies: Littérature migrante. (IP; 4 cr; prereq or coreq 3011 or #; spring, even years)

Examination of texts written by people on the move: immigrants, migrants, people in exile. How do their texts move with them? How do these movements challenge national paradigms? Meets Francophone requirement in French major.

Fren 4021. French and Francophone Theater. (Hum; 4 cr; prereq or coreq 3011 or #; fall, even years)

The study of theatrical texts of France and other French-speaking countries, including the history of theater, various theatrical movements, and the political nature of theatrical texts. Some oral interpretation is included.

Fren 4991. Independent Study in French Abroad. (IP; 4 cr [max 12 cr]; prereq 2002 or #; 3022 or 3032 or 3041 recommended; fall, spring)

An independent study designed for study abroad and based on the student's research interests in French or Francophone language, culture, history, etc. The project is defined in consultation with a French faculty member before the student leaves the United States. The faculty member guides the project via e-mail.

Ger 3041. New German Cinema. (IP; 4 cr; =[Hum 3041]; prereq 3011; offered when feasible; fall)

Same as Hum 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Ger 3042. Weimar Film. (IP; 4 cr; =[Hum 3042]; prereq 3011; offered when feasible; spring)

Same as Hum 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3101. Survey of German Literature and Culture I. (Hum; 4 cr; prereq 3011 or #; fall, every year)

Chronological study of German literature and its cultural background from the early beginnings through the 18th century. Selected representative works are read and analyzed.

Ger 3102. Survey of German Literature and Culture II. (Hum; 4 cr; prereq 3011 or #; spring, every year)

Chronological study of German literature and its cultural background from the 18th century to the 20th century. Selected representative works are read and analyzed.

Ger 3201. Periods: German Classicism. (Hum; 4 cr; prereq 3101, 3102 or #; spring, even years)

Readings in aesthetic theory and exemplary works by writers of the period. Texts by Goethe and Schiller are read and analyzed in conjunction with opera librettos based on their works. Modern films and videos of theater performances supplement the readings.

Ger 3202. Periods: German Romanticism. (Hum; 4 cr; prereq 3101, 3102 or #; spring, odd years)

Readings in Romantic theory and works by important authors of the period: Wackenroder, Tieck, Novalis, Eichendorff, and E.T.A. Hoffmann. Other art forms, such as music and painting supplement the literary discussions.

Ger 3203. Periods: German Modernism. (IP; 4 cr; prereq 3101, 3102 or #; offered when feasible; fall, spring)

Explores the culture of German-speaking countries around the turn of the 20th century (1890–1933) through literature, music, and the visual arts, especially as manifested in Symbolism, Secession (Art Nouveau), Expressionism, Dada, and New Objectivity.

Ger 3501. Women's Issues in Contemporary German Culture.

(IP; 4 cr; =[Hum 3501]; prereq 3011 or #; offered when feasible; spring)

Same as Hum 3501. Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3601. Studies in German Literature. (Hum; 4 cr; prereq 3011, #; fall, odd years)

Selected readings in German reflecting modern literary trends. The course examines the cultural politics in the involvement of the literature in the formerly divided Germany, using plays, novels, biography, and documentary reports. It deals with questions of literary theory, history, and sociopolitical structures.

Hist 3101. Renaissance and Reformation. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of western European history and historiography between 1350 and 1600 with emphasis on cultural "renaissances" and religious "reformations."

Hist 3102. Early Modern Europe to 1750. (Hist; 4 cr; offered when feasible; fall, spring)

Survey of historical developments in Europe from about 1350 to 1750.

Hist 3103. Medieval Europe. (Hist; 4 cr; offered when feasible; fall, spring)

Survey of historical developments in Europe from about 500 to 1500.

Division Structure and Course Descriptions

Hist 3105. Early Medieval Europe. (Hist; 4 cr; offered when feasible; fall)
Survey of historical developments in Europe between 500 and 1100.

Hist 3106. Late Medieval Europe. (Hist; 4 cr; offered when feasible; spring)
Survey of historical developments in Europe between 1100 and 1500.

Hist 3151. Modern Europe. (Hist; 4 cr; offered when feasible; fall, spring)
History of modern Europe emphasizing political, economic, social, and intellectual developments since 1789.

Hist 3156. Modern German Intellectual History. (Hist; 4 cr; offered when feasible; fall, spring)
Many of the most influential ideas of the 19th and 20th centuries emerged from the German-speaking world and it is worth considering how and why that happened. Examination of the German intellectual history since 1815 and the various relationships between ideas and politics that have shaped German state-building, as well as the ways in which those ideas have had other lives in other places.

Hist 3159. Europe's 20th Century. (IP; 4 cr; fall)
Consideration of Europe's "age of extremes," from the convulsions of social change at the beginning of the 1900s through the revolutions and world wars whose long-term effects produced the Europe seen today, with all of its tensions and potential. Use of primary documents, historical interpretations, fiction, and film to examine historical events and the past and present attitudes of Europeans toward them. Major problems in 20th-century European history and how historians approach them.

Hist 3161. The Enlightenment. (Hist; 4 cr; offered when feasible; fall, spring)

The intellectual ferment of the Enlightenment has been given the credit and the blame for all things modern—from the concept of human rights and the democracies it has engendered to the subversion of those rights in the totalitarian regimes of the 20th century. Exploration of the ideas of the Enlightenment and their political context and attempt to answer the question of how such an important development in human history can be viewed in such contradictory ways.

Hist 3202. Russian Revolution. (Hist; 4 cr; offered when feasible; fall)

History of the Russian Revolution. Origins, the March and October Revolutions, the Civil War, and beginnings of Communist rule.

Hist 3204. Nazi Germany. (Hist; 4 cr; offered when feasible; fall, spring)

History of Nazi Germany. Social and political origins, Nazi rule in the 1930s, the "final solution," World War II, and Germany's attempt to assess this era in its history.

Hist 3207. The Crusades. (IP; 4 cr; offered when feasible; fall, spring)

Explores the historical contexts and consequences of the European Crusades between the 11th and 13th centuries, including the perspective of European Jews, Turkish and Arabic Muslims, and Byzantine and Near Eastern Christians.

Hist 3209. Modern Germany. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of German history from the development of German national ideas through unification and consolidation of the modern German state in 1871 and through its re-unification at the end of the 20th century. Examines one of the most fascinating and tumultuous periods in German and European history, why the attempt to understand the German past has occupied so many historians, and why the debates surrounding that attempt have been so contentious. Sources include writings by established historians of Germany, novels, films, and music.

Hist 3210. Popular Religion, Heresy, and Inquisition in the Middle Ages. (Hist; 4 cr; offered when feasible; fall, spring)

The history of popular religious belief and practice in medieval Europe and the relationship between heresy, reform, and inquisition. Topics may include pilgrimage, prayer, saints and sacraments; religious roles for lay people and women; new orders and heresies; and the late-medieval growth of inquisitorial activity and administration.

Hist 3211. Modern France. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of French culture and history from the Revolution (1789) to the present. The ways in which successive governments, from Napoleon's empire through the Fifth Republic, have come to terms with legacies of the Revolution such as national citizenship, individual rights, and the politicization of women.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; offered when feasible; fall, spring)

Analysis of the history of European women and gender systems as constructed during the Middle Ages (c. 500–1500).

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)

Examination of lives of women in Europe from about 1350 to 1750.

Hist 3708. European Women's History, 1600–Present. (IP; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)

Examination of the forces that have shaped the lives of European women since 1600 and analysis of how changes in the structures of power and authority—religious, political, social, familial—affected the choices available to them. Students engage critically with the question of what bringing gender to the forefront of the study of European history has to teach them. Students gain an understanding of many of the underpinnings of American society, which has been deeply affected by European patterns of thought about women and their place in the world.

Hum 3041. New German Cinema. (IP; 4 cr; =[Ger 3041]; offered when feasible; fall)

Same as Ger 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Hum 3042. Weimar Film. (IP; 4 cr; =[Ger 3042]; offered when feasible; spring)

Same as Ger 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Mus 1041. Introduction to Music. (FA; 4 cr; fall, every year)

Survey emphasizing development of an intelligent understanding and appreciation of music. For non-music majors.

Mus 3101. Core Studies III: Medieval, Renaissance, and Baroque Music. (Hist; 4 cr; prereq 1102, major or minor or #; fall, every year)

Historical development of Western music and representative literature of the various periods and styles.

Pol 1401. World Politics. (IP; 4 cr; fall, every year)

The contemporary international system, including nationalism, international political economy, foreign policy formulation, and global concerns such as the environment and conflict. North/South debate, definitions of power, the new world order, regional vs. global conflicts, and avenues of cooperation.

Pol 3352. Political Thought: Modern. (Hum; 4 cr; prereq 1101 or #; spring, every year)

Machiavelli; theories during the Renaissance, Reformation, and the Counter-Reformation. Early modern absolutism, the emergence of modern contract theory, constitutionalism, liberalism, and utopianism.

Pol 3421. International Organizations. (E/CR; 4 cr; prereq 1401 or #; spring, odd years)

Origins of diplomacy and its role in maintaining communication among nations, including the recent and special role of international organizations. History of the practice of diplomacy, current bilateral diplomatic practices, and multilateral interactions as practiced through the United Nations and the League of Nations before it. Structure and functional agencies of the U.N. and role in international peacekeeping or collective security.

Pol 3502. Government and Politics of Europe. (SS; 4 cr; prereq 1301 or #; fall, even years)

The comparative study of contemporary government/politics in Europe. Emphasizes influence of economic, cultural, and other factors. Parties, bureaucracy, legislatures, and executives, and the way in which they reflect and contribute to political life.

Pol 4301. Contemporary Political Ideologies. (Hum; 4 cr; prereq 1101 or #; spring, every year)

Major currents of political theory from Marx to present: Marxism, socialism, syndicalism, anarchism, fascism, political ideologies of antidemocratic thought, and totalitarian regimes.

Span 3212. Literature and Culture of Spain. (Hum; 4 cr; prereq 3002, 3101; fall)

Study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

Span 3651. Seminar: Miguel de Cervantes Saavedra's *El ingenioso hidalgo Don Quijote de la Mancha*. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of Miguel de Cervantes Saavedra's novel, *El ingenioso hidalgo Don Quijote de la Mancha* in light of its socio-historical context.

Span 3652. Seminar: Literary Minorities in Early Modern Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the representative literary works written by or about Spanish Jewish and Muslim minorities from the middle ages to the 17th century in light of their respective sociohistorical contexts.

Span 3653. Seminar: Maria de Zayas: Literary Violence in Golden Age Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the major works of 17th-century writer María de Zayas y Sotomayor, *The Enchantments of Love* (1637) and *The Disenchantments of Love* (1647), in light of their sociohistorical contexts and the political issues surrounding the formation of literary canons.

Span 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI–XVII centuries) in Spain. Consideration of the gender relations and gender politics reflected in the works and the socio-historical context in which these works were produced.

Span 3671. Seminar: Origins of the Spanish Character. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Analysis of the Medieval and Golden Age roots of many of the beliefs and attitudes of contemporary Spain. Themes common to Spain, explored in both traditional and modern contexts, may include honor, patriotism, religion, idealism, individuality, satire, love, pride, etc.

Span 3672. Seminar: Reform in Spain: The Saint and the Journalist. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Analyzing, comparing, and contrasting the lives and writings of St. Teresa of Avila (XVI Century) and Mariano José de Larra (XIX Century) as they worked toward a better Spain. Difficulties of religious and cultural reform as well as differences in traditional and enlightenment values are explored.

Span 3681. Seminar: Romanticism and Revolution in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of representative texts (prose and poetry) from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

Span 3682. Seminar: Realism and Reform in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of representative texts (novels, stories, and essays) from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the sociopolitical reality of the era and the need for reform. The focus is on general trends in Western cultures (e.g., industrialization, positivism, secularization).

Division Structure and Course Descriptions

Span 3683. Seminar: Modernity and Identity in Spain, 1900-1930. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall) Study of representative texts (prose and poetry) from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

Span 4001. Research Symposium. (Hum; 4 cr; prereq #; A-F only; fall, every year)

A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation.

Spch 3411. Intercultural Communication Theory and Research. (HDiv; 4 cr; prereq 2101 or #; fall, every year)

Study of intercultural communication from an interpersonal and group perspective.

Th 3101. World Theatre: History and Literature I. (FA; 4 cr; fall, every year)

Theatrical practice and dramatic literature from origins through late 17th century, tracing the roots leading to, and influences on, early modern European theatre practice and dramatic literature, as well as examining select Asian, African, and/or pre-Columbian American theatrical practice.

Th 3102. World Theatre: History and Literature II. (FA; 4 cr; spring)

Theatrical practice and dramatic literature from the late 17th century to the present, examining select Asian, African, and/or Western Hemisphere theatrical practice, as well as tracing the roots leading to, and influences on, current world theatre practice and dramatic literature.

Foreign Languages and Literatures

(See Chinese [Chn], Education [Ed], French [Fren], German [Ger], Italian [Ital], Interdisciplinary Studies [IS], and Spanish [Span].)

UMM offers majors and minors in French, German, and Spanish. Some beginning courses in Chinese, Dakota, Italian, and Sign Language are also offered. Study of a foreign language, culture, and literature may be undertaken for its own sake as part of a traditional liberal education. It is useful as well for preparation for teaching, graduate or professional work, and business careers.

In addition to organized foreign language programs, UMM offers a variety of other language options. See the individual discipline sections for complete catalog descriptions. Check the Class Schedule for courses to be taught in a specific term. The following are courses that could be offered.

Chn 1001. Beginning Modern Chinese I. (FL; 4 cr; fall, every year)

Chn 1002. Beginning Modern Chinese II. (FL; 4 cr; prereq 1001 or #; spring, every year)

Ed 1011. Beginning Sign Language I. (FL; 3 cr; prereq #; fall, every year)

Ed 1012. Beginning Sign Language II. (FL; 3 cr; prereq 1011; spring, every year)

Ed 2011. Intermediate Sign Language I. (FL; 3 cr; prereq 1012 or #; fall, spring)

Ed 2012. Intermediate Sign Language II. (FL; 3 cr; prereq 2011; fall, spring)

IS 1301. Dakota Language I. (FL; 4 cr; fall, every year)

IS 1302. Dakota Language II. (FL; 4 cr; prereq 1301 or #; spring, every year)

Ital 1301. Beginning Italian I. (FL; 4 cr; fall, every year)

Ital 1302. Beginning Italian II. (FL; 4 cr; prereq 1301 or placement or #; spring, every year)

Ital 1311. Modern Italy Through Literature and Film. (Hum; 3 cr; offered when feasible; fall, spring)

Ital 1321. Intermediate Italian I. (IP; 4 cr; prereq 1302 or #; offered when feasible; fall, spring)

Span 2121. Associated Languages: Intensive Portuguese. (IP; 4 cr; prereq 2002 or Fren 2002 or #; offered when feasible)

French (Fren)

This discipline is in the Division of the Humanities. The French discipline gives students the language and analytic skills necessary to participate in the cultural life and appreciate the literary heritage of France and Francophone countries throughout the world. French is an important language of diplomacy, commerce, health care, and research in many disciplines, such as music, art, linguistics, history, law, political science, anthropology, and philosophy.

Objectives—The French discipline is designed to teach skills necessary for communicating with a variety of French-speaking peoples and to introduce their rich cultures, including their ideas, institutions, and writings, past and present. It invites students to look at the impact these cultures have had on Western civilization and to examine all of them critically.

Major Requirements

Fren 2001—Intermediate French I

Fren 2002—Intermediate French II

Fren 3001—Conversation and Composition

Fren 3011—Reading and Analysis of Texts

One course from the Early Modern Studies cluster (marked with an EMS designator in the course title)

One course from the Modern Studies cluster (marked with an MOS designator in the course title), or Fren 1302, Fren 1303 or Fren 1304

One course from the Francophone Studies cluster (marked with an FRS designator in the course title), or Fren 1311

Fren 4901—Senior Seminar

A minimum of 8 additional credits from Fren courses at 3xxx or above

(Students can select elective courses from any clustered or non-clustered courses at the 3xxx level or above.)

Students are strongly encouraged to study abroad, but should also plan to complete a significant amount of coursework in French at UMM. Up to 9 credits for one semester abroad or 16 credits for a year abroad may count towards the French major. Transfer students may apply up to 9 credits from another institution towards the French major. Students who wish to apply both transfer and study abroad credits to the French major must petition the French faculty for approval. Decisions will be made on an individual basis.

Fren 4901 must be taken on campus and the final seminar presentation must be given in French. One cross-listed French course taught in English (such as Fren 1302, 1303, 1304, or 1311) may be counted toward the major, provided that students complete written work for the class in French.

No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Students majoring in French are encouraged to take at least one year of instruction in another foreign language. Students may count Fren 4991—Independent Study in French Abroad and Fren 3060—July in Paris: French Language and Culture in Paris II toward the major.

Minor Requirements

Fren 2001—Intermediate French I

Fren 2002—Intermediate French II

Fren 3001—Conversation and Composition

Fren 3011—Reading and Analysis of Texts

A minimum of 8 additional credits from Fren courses at 3xxx or above

Students are strongly encouraged to study abroad, and may count 6 credits from study abroad toward their French minor. All courses for the French minor must be taught in French. No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Certificate Program in French

The Certificate Program in French responds to the growing demand for individuals who can communicate successfully in a global environment, and is intended for students whose other academic commitments prevent them from completing either a major or a minor in French. To earn a certificate, a student must:

- Complete a minimum of 12 credits of college-level coursework in French at UMM beyond the foreign language requirement at the 2xxx or 3xxx level. Performance across three courses will give the faculty a chance to assess the skills and progress of the student.
- Earn at least a B in each of the three courses (S-N grades will not be accepted for the Certificate)

Four of the 12 credits required for the certificate may be earned through study abroad, such as the UMM July in Paris Program. All courses for the certificate must have a Fren designator. Courses taught in English do not meet the requirements for the certificate program. Students who complete a major or minor in French are not eligible for the certificate program.

A student who has met the above requirements will receive a reference letter from the UMM French faculty certifying completion of the certificate program as well as language competence.

Teacher Preparation Requirements

Students seeking teaching licensure in French K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Required Proficiency/Placement

Examination—Students who plan to complete courses in the same language they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

Study Abroad

In light of today’s increasingly interdependent world, the UMM French faculty endorses study abroad, in combination with a French major or minor, as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Division Structure and Course Descriptions

Course Descriptions

Fren 1001. Beginning French I. (FL; 4 cr; fall, every year)
An introduction to oral and written French, its basic structure, and to French culture.

Fren 1002. Beginning French II. (FL; 4 cr; prereq 1001 or placement or #; spring, every year)
Continuation of 1001.

Fren 1021. July in Paris: French Language and Culture in Paris I. (FL; 4 cr; summer, every year)

Beginning course for UMM July in Paris Program. Four weeks of intensive beginning French language and culture at the Sorbonne, Paris IV; guided visits to cultural and historical sites. No previous experience of French required. See also Fren 3060: July in Paris: French Language and Culture in Paris II. [Continuing Education course]

Fren 1302. French Cinema. (IP; 4 cr; =[Hum 1302]; prereq #; fall, even years)
Same as Hum 1302. The history of filmmaking in France from the Lumière brothers to the present; introduction to major trends in film theory. All films have English subtitles. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Fren 1303. Paris as Text/Image/Sound. (IP; 4 cr; =[Hum 1303]; prereq #; offered when feasible)
Same as Hum 1303. Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Texts by Balzac, Baudelaire, Hemingway, Stein, and others. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Fren 1304. French Women Authors in Translation. (IP; 4 cr; =[Hum 1304]; prereq #; fall, odd years)
Same as Hum 1304. French women's movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Fren 1311. West African Francophone Cinema. (IP; 4 cr; =[Hum 1311]; prereq #; fall, odd years)
Same as Hum 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, recognize and analyze political themes in the films, and become sensitive to issues facing many African nations in the postcolonial world. Taught in English, but all papers and some reading/discussion will be in French. Meets Francophone requirement in French major.

Fren 1312. Morocco: History, Story, Myth. (IP; 4 cr; =[Hum 1312]; offered when feasible; summer)
Same as Hum 1312. Study of the ways that history, myth, and storytelling intertwine to create Moroccan identity. Examination of the entwining of history into myth. Study of the different methods of telling stories through orality, literature, weaving, ceramics, and music. Taught in English, but all papers and some reading/discussion is in French. [Continuing Education course]

Fren 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Fren 2001. Intermediate French I. (IP; 4 cr; prereq 1002 or placement or #; fall, every year)
Review of the essential structural patterns of the French language; continued development of oral, aural, reading, and writing skills based on cultural and literary texts appropriate to this level.

Fren 2002. Intermediate French II. (IP; 4 cr; prereq 2001 or placement or #; spring, every year)
Review of the essential structural patterns of the French language; continued development of oral, aural, reading, and writing skills based on cultural and literary texts appropriate to this level.

Fren 2011. Introduction to French Phonetics. (Hum; 2 cr [max 4 cr]; open to all students of French; course does not count toward FL requirement; fall, spring)
Training in French pronunciation through general and French phonetics geared towards speakers of American English.

Fren 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Fren 3001. Conversation and Composition. (IP; 4 cr; prereq 2002 or placement or #; fall, every year)
Conversation, including work on sounds and sound patterns as well as vocabulary building and practice based on common situations; writing skills; and advanced grammar review.

Fren 3011. Reading and Analysis of Texts. (Hum; 4 cr; prereq 3001 or #; spring, every year)
Introduction to representative literary works of France and the French-speaking world. Development of ease in reading French; introduction to methods for analyzing its style and meanings.

Early Modern Studies: These courses fall within the period from the Middle Ages to the French Revolution. Students gain familiarity with the history, culture, and literature of France from its beginning in feudal society through the Enlightenment and the end of the Ancien Régime.

Fren 3022. Early Modern Studies: French Culture I: Medieval and Early Modern France. (Hist; 4 cr; prereq or coreq 3011 or #; offered when feasible; fall)

This course traces the history of French culture from the Middle Ages until the French Revolution; it examines the geography, language, and institutions of medieval and early modern France. Meets Early Modern requirement in French major.

Fren 3023. Early Modern Studies: French Literature I: Medieval and Early Modern France. (Hum; 4 cr; prereq or coreq 3011 or #; offered when feasible; spring)

Survey of French literature from the Middle Ages to the Enlightenment; a study of the successive ideals of feudalism, Renaissance knowledge and lyricism, classical reason and unreason, and the “Rights of Man.” Meets Early Modern requirement in French major.

Fren 3024. Early Modern Studies: French Fairy Tale and the Fantastic. (Hum; 4 cr; prereq or coreq 3011 or #; spring, odd years)

Study of the marvelous and the fantastic from the 17th century to the end of the 19th century. Readings from Charles Perrault, Mme. Leprince de Beaumont, Mme. d'Aulnoy, Guy de Maupassant, and others. Meets Early Modern requirement in French major.

Fren 3025. Early Modern Studies: Wonder and the Marvelous. (Hum; 4 cr; prereq or coreq 3011 or #; spring, even years)

Examination of “le merveilleux” in French literature in medieval and early modern texts. Examples are taken from the work of Marie de France, Rabelais, Ambroise Paré, Descartes, and several baroque dramatists. Meets Early Modern Requirement in French major.

Modern Studies: These courses cover a wide range of historical, literary, and cultural moments and movements that have marked France's development since 1789, the beginning of the French Revolution.

Fren 3032. Modern Studies: French Culture II: Modern and Contemporary France. (IP; 4 cr; prereq or coreq 3011 or #; fall, even years)

A study of French culture and history from the French Revolution to the present, and France's fitful development as a modern, multicultural democracy. Meets Modern requirement in French major.

Fren 3033. Modern Studies: French Literature II: Revolution, Romanticism, Modernity. (Hum; 4 cr; prereq or coreq 3011 or #; spring, odd years)

French literature from the Enlightenment to the present. A chronological survey examines the human condition as shaped by a new awareness of the role of individual agency in shaping history, the creative self, and the unconscious. Meets Modern requirement in French major.

Fren 3034. Modern Studies: French Poetry and Music.

(Hum; 4 cr; prereq or coreq 3011; spring, odd years)
Survey of French poetry and music with emphasis on 19th and 20th century poetry and 20th–21st century music. Studying music enhances understanding of the fundamentals of verse, including rhyme, meter, and sound. Meets Modern Requirement in French major.

Francophone Studies: These courses examine the literature, film, history, and cultures of French-speaking populations living in Africa, North America, the Caribbean, and Asia.

Fren 3041. Francophone Studies: Francophone Worlds. (IP; 4 cr; prereq or coreq 3011 or #; fall)

Readings in a variety of cultural and literary texts from among French-language writers of Africa, the Caribbean, Asia, North America, and Europe; study of issues of national identity, race, gender, and postcolonial consciousness. Meets Francophone requirement in French major.

Fren 3042. Francophone Studies: Contes francophones. (IP; 4 cr; prereq or coreq 3011 or #; spring, even years)

Study of the oral tale in African and Caribbean cultures. Examination of the form of these tales, their thematic structure, and how these tales have been translated into written and/or cinematographic texts. Meets Francophone requirement in French major.

Fren 3043. Francophone Studies: Littérature migrante. (IP; 4 cr; prereq or coreq 3011 or #; spring, even years)

Examination of texts written by people on the move: immigrants, migrants, people in exile. How do their texts move with them? How do these movements challenge national paradigms? Meets Francophone requirement in French major.

Fren 3044. Francophone Studies: L'Amérique francophone. (Hum; 4 cr; prereq or coreq 3011 or #; fall, odd years)

Survey of literary texts and movements in Francophone North America, including Quebec and Louisiana, as well as the history of French exploration of the New World. A discussion of the cultural tensions that have threatened and continue to shape Francophone identity in North America. Meets Francophone requirement in French major.

Fren 3060. July in Paris: French Language and Culture in Paris II. (IP; 4 cr [max 8 cr]; prereq 1002 or equiv; summer, every year)

Advanced coursework for UMM July in Paris Program. Four weeks of intermediate or advanced French language study at the Sorbonne, Paris IV; guided visits to cultural and historical sites. See also Fren 1021: July in Paris: French Language and Culture in Paris I. [Continuing Education course]

Fren 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Fren 4011. Thème et Version. (Hum; 4 cr; prereq or coreq 3011 or #; spring, odd years)

The art of translation applied to everyday discourse, literary texts, and a number of professional fields: journalism, international business, and political, social, and natural sciences with a particular emphasis on specialized vocabularies and advanced grammar and syntax.

Fren 4021. French and Francophone Theater. (Hum; 4 cr; prereq or coreq 3011 or #; fall, even years)

The study of theatrical texts of France and other French-speaking countries, including the history of theater, various theatrical movements, and the political nature of theatrical texts. Some oral interpretation is included.

Fren 4901. Senior Seminar. (4 cr; prereq completion of 32 credits toward the French major; must be taken on campus; spring, every year)

A capstone experience for majors, consisting of a substantial scholarly or creative work (at the undergraduate level) within the discipline. Conducted as a seminar.

Fren 4991. Independent Study in French Abroad. (IP; 4 cr [max 12 cr]; prereq 2002 or #; 3022 or 3032 or 3041 recommended; fall, spring)

An independent study designed for study abroad and based on the student's research interests in French or Francophone language, culture, history, etc. The project is defined in consultation with a French member before the student leaves the United States. The faculty member guides the project via e-mail.

Fren 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Geography (Geog)

This discipline is in the Division of the Social Sciences.

Objectives—Geography courses focus on basic concepts of the field and deal with both societal relationships and the physical environment.

Geog 2001 satisfies the geography requirement for students seeking secondary school teaching licensure in the social sciences.

Course Descriptions

Geog 2001. Problems in Geography. (Envst; 4 cr; spring, every year)

Basic concepts and questions in the field of geography. The terminology and approaches of geographical inquiry and analysis, with emphasis on the spatial patterns and arrangements of human interaction with the landscape and the production of geographical knowledge.

Geology (Geol)

This discipline is in the Division of Science and Mathematics. Geology offers courses that satisfy a variety of requirements as well as a curriculum leading to a bachelor of arts degree in geology.

Objectives—The geology curriculum serves those interested in a broader knowledge of their natural environment and the geological sciences as part of their liberal arts education; provides a firm foundation in geology, related sciences, and mathematics for students interested in the investigation and solution of geologic problems; prepares students for graduate study in the geosciences and related areas; provides the necessary background in earth science for those who plan to teach in this field at the secondary level; and serves those in other professional or interdisciplinary programs who need geology as a related subject.

Major Requirements

Required Courses

Geol 1101—Physical Geology, Sci-L (4 cr)

Geol 2101—Mineralogy and Crystallography, Sci-L (4 cr)

Geol 2111—Igneous and Metamorphic Petrology, Sci-L (4 cr)

Geol 2121—Sedimentology and Stratigraphy, Sci-L (4 cr)

Geol 3101—Structural Geology, Sci-L (4 cr)

Geol 3196—Geology Field Camp, Sci (6 cr)

Geol 4901—Geology Senior Seminar (1 cr)

Geol 4902—Geology Senior Seminar Presentations (1 cr)

Chem 1101—General Chemistry I, Sci-L (4 cr)

Chem 1102—General Chemistry II, Sci-L (4 cr)

Math 1101—Calculus I, M/SR (5 cr)

Elective Courses

Take 10 or more credit(s) from the following:

Geol 2131—Geomorphology, Sci (4 cr)

Geol 2141—Glacial and Quaternary Geology, Sci (4 cr)

Geol 2161—GIS and Remote Sensing, Sci (4 cr)

Geol 3001—Global Tectonics, Sci (4 cr)

Geol 3004—Orogenic Belts, Sci (4 cr)

Geol 3111—Introduction to Invertebrate Paleontology, Sci-L (4 cr)

Geol 3401—Geophysics, Sci (4 cr)

Geol 3411—Advanced Stratigraphy: Subsurface Methods, Sci (4 cr)

Geol 3421—Airphoto Interpretation, Sci (4 cr)

Geol 3501—Hydrology, Sci (4 cr)

Geol 4130—Advanced Geomorphology, Sci (4 cr)

Geol 4140—Advanced Glacial and Quaternary Geology, Sci (4 cr)

Geol 3993—Directed Study (1–5 cr)

or Geol 4993—Directed Study (1–5 cr)

Recommended for graduate studies:

Geol 2151—Historical Geology: Earth History and Changing Scientific Perspectives, Sci-L (4 cr)

Additional Electives

Take 7 or more credit(s) from the following:

Courses must be chosen in consultation with a geology adviser.

Biol 1xxx, 2xxx, 3xxx, 4xxx

Chem 1xxx, 2xxx, 3xxx, 4xxx

CSci 1xxx, 2xxx, 3xxx, 4xxx

Math 1xxx, 2xxx, 3xxx, 4xxx

NSci 1xxx, 2xxx, 3xxx, 4xxx

Phys 1xxx, 2xxx, 3xxx, 4xxx

Stat 1xxx, 2xxx, 3xxx, 4xxx

Up to 8 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Students intending to pursue graduate studies in the geological sciences should take CSci 1301, Geol 2151, Math 1102, and Phys 1101.

Minor Requirements

Required Courses

Geol 1101—Physical Geology, Sci-L (4 cr)

Geol 2101—Mineralogy and Crystallography, Sci-L (4 cr)

- Geol 2111—Igneous and Metamorphic Petrology, Sci-L (4 cr)
 Geol 2121—Sedimentology and Stratigraphy, Sci-L (4 cr)
 Chem 1101—General Chemistry I, Sci-L (4 cr)
 Chem 1102—General Chemistry II, Sci-L (4 cr)

Elective Courses

Take 8 or more credit(s) from the following:

- Geol 2131—Geomorphology, Sci (4 cr)
 Geol 2141—Glacial and Quaternary Geology, Sci (4 cr)
 Geol 2151—Historical Geology: Earth History and Changing Scientific Perspectives, Sci-L (4 cr)
 Geol 2161—GIS and Remote Sensing, Sci (4 cr)
 Geol 3001—Global Tectonics, Sci (4 cr)
 Geol 3004—Orogenic Belts, Sci (4 cr)
 Geol 3101—Structural Geology, Sci-L (4 cr)
 Geol 3111—Introduction to Invertebrate Paleontology, Sci-L (4 cr)
 Geol 3401—Geophysics, Sci (4 cr)
 Geol 3411—Advanced Stratigraphy: Subsurface Methods, Sci (4 cr)
 Geol 3421—Airphoto Interpretation, Sci (4 cr)
 Geol 3501—Hydrology, Sci (4 cr)
 Geol 4130—Advanced Geomorphology, Sci (4 cr)
 Geol 4140—Advanced Glacial and Quaternary Geology, Sci (4 cr)

Take no more than 3 credit(s) from the following:

- Geol 1993—Directed Study (1–5 cr)
 Geol 2993—Directed Study (1–5 cr)
 Geol 3993—Directed Study (1–5 cr)
 Geol 4993—Directed Study (1–5 cr)

Up to 8 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students pursuing teaching licensure in earth and space science 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Geol 1001. Environmental Geology: Geology in Daily Life. (Sci; 4 cr; may not count toward the geol major or minor; spring, every year)

Effects of volcanoes, earthquakes, and floods on humans and civilization; geologic problems associated with rural and urban building, waste management, and waste disposal; the importance of geologic knowledge in the discovery of fossil fuels and mineral resources. (4 hrs lect)

Geol 1011. Geology of the National Parks. (Sci; 4 cr; may not count toward the geol major or minor; offered when feasible; fall) Exploration of the fundamental aspects of the geosciences: earth materials, geologic time, plate tectonics, and the evolution of landscapes by examining the geology and geologic history of the U.S. national parks. (4 hrs lect)

Geol 1012. Oceanography. (Sci; 4 cr; may not count toward geol major or minor; fall) Physiography and geological evolution of ocean basins; marine sedimentation; coastal processes and environments; chemical evolution, and chemical and physical properties of seawater; ocean-atmosphere interactions; deep-ocean circulation; waves and tides; marine ecosystems. (4 hrs lect)

Geol 1101. Physical Geology. (Sci-L; 4 cr; fall, spring, every year) Introduction to the materials that make up the Earth and the structures, surface features, and geologic processes involved in its origin and development. Lab work includes study of the major constituents of the Earth’s crust, including the important rocks and minerals; study of surface and geologic features using aerial photographs, topographic maps, and satellite imagery. (3 hrs lect, 3 hrs lab)

Geol 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year) An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Geol 2001. Advanced Environmental Geology. (Envt; 4 cr; offered when feasible; spring) Examination of the more significant interactions between humans and geologic environments and processes. Earthquake and volcanic hazards, river flooding, mass movements and slope stability, coastal hazards, and water resources and pollution. Lectures and problems sets emphasize the quantitative approaches used to determine the likelihood and frequency of natural hazards, assess associated risks, and mitigate damage.

Geol 2101. Mineralogy and Crystallography. (Sci-L; 4 cr; prereq 1101, Chem 1101 or #; fall, every year) Classification, identification, physical and chemical properties, origin and natural occurrence of major mineral groups. Lab study of crystal systems by use of models; introduction to optical aspects and physical and chemical testing. (3 hrs lect, 6 hrs lab and field trips)

Geol 2111. Igneous and Metamorphic Petrology. (Sci-L; 4 cr; prereq 2101; spring, every year) Classification, composition, genesis, and natural occurrence of igneous and metamorphic rocks; lab study and identification of rocks by various macroscopic, microscopic, and chemical means. (3 hrs lect, 6 hrs lab and field trips)

Division Structure and Course Descriptions

Geol 2121. Sedimentology and Stratigraphy. (Sci-L; 4 cr; prereq 2101; fall, every year)

Processes of sedimentation, including origin, transportation, and deposition of sediments; interpretation of sedimentary environments. Principles of stratigraphy and their applications. Lab work includes sedimentary particle analysis; stratigraphic sections; and interpretation of ancient sedimentary environments based on stratified sequences of sedimentary rock. (3 hrs lect, 3 hrs lab and field trips)

Geol 2131. Geomorphology. (Sci; 4 cr; prereq 1101; spring, odd years)

Study of the Earth's surface and surficial processes; weathering, erosion, and deposition, and the resulting landforms and products; the history of the study of landforms in the United States. (3 hrs lect, 3 hrs lab and field trips)

Geol 2141. Glacial and Quaternary Geology. (Sci; 4 cr; prereq 1101; fall, even years)

Glaciers, glaciology, glacial deposition, glacial erosion; climatic change and the growth and advance of ice sheets; effect of glaciations on flora and fauna. (3 hrs lect, 3 hrs lab and field trips)

Geol 2151. Historical Geology: Earth History and Changing Scientific Perspectives. (Sci-L; 4 cr; spring, every year)

Development of fundamental theories and principles of geology, including stratigraphy, uniformitarianism, geologic time, evolution, and plate tectonics. Emphasis on how geological thought has evolved through time as the scientific, religious, and political climate has changed. Discussion of the Earth's history and science's changing views of the Earth; continental movements, mountain building, and the evolution and development of organisms and ecosystems. Lab experience on methods of interpreting Earth's history from rocks, fossils, and structures and solving geological problems. (3 hrs lect, 3 hrs lab)

Geol 2161. GIS and Remote Sensing. (Sci; 4 cr; prereq 1101 or Biol 1101 or Biol 1111 or #; spring)

Introduction to design, development, and application of Geographic Information Systems (GIS); overview of acquisition and utility of satellite data and imagery; emphasis on applications in Earth and environmental sciences; lab component focuses on practical aspects of GIS development and use and involves original semester projects designed and implemented by individual students.

Geol 2301. Geology of Minnesota. (Sci-L; 4 cr; offered when feasible; summer)

Active, hands-on learning both in class and on class field trips to selected localities throughout the state. Field trips include: Pipestone National Monument; glacial geology of west-central Minnesota; geology of the Minnesota River Valley; and St. Cloud Quarry Park. [Continuing Education course]

Geol 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Geol 3001. Global Tectonics. (Sci; 4 cr; prereq #; fall, spring)

Internal structure and composition of the earth; geometry and motion of lithospheric plates; geological and geophysical processes at plate boundaries; evolution of mountain belts; heat flow, thermal convection, and the driving mechanism for plate movement.

Geol 3004. Orogenic Belts. (Sci; 4 cr; prereq 3001 or #; spring, even years)

Geodynamics of convergent and collisional tectonism; physical and chemical processes that control global topography; physical, chemical, and temporal evolution of orogenic (mountain) systems; regional comparison of characteristic orogenic belts (Alps, Himalaya, Appalachians, etc.); physical and environmental consequences of mountain building.

Geol 3101. Structural Geology. (Sci-L; 4 cr; prereq 2111 or #; spring, every year)

Elementary concepts of stress and strain, theory of rock deformation; description and classification of structures in the Earth's crust; application of geometric, analytical, and map interpretation techniques to solving structural problems; field mapping problems. (3 hrs lect, 3 hrs lab and field trips)

Geol 3111. Introduction to Invertebrate Paleontology. (Sci-L; 4 cr; prereq 1121 or #; spring, odd years)

Morphology and evolutionary record of the major invertebrate groups characterized by significant fossil representation. Principles of evolution, paleoecology, and paleoenvironmental interpretations of fossil assemblages. (3 hrs lect, 3 hrs lab)

Geol 3196. Geology Field Camp. (Sci; 6 cr; prereq 2121, 2151, 3101; summer, every year)

Identification and solution of geological problems in the field, including stratigraphic correlation, construction of cross sections and geologic maps, report preparation, field mapping, structural analysis, and environmental interpretation of Precambrian and Paleozoic rock units. Only offered during summer at a 6-week residential camp.

Geol 3401. Geophysics. (Sci; 4 cr; prereq Math 1101, Phys 1101 or #; fall, odd years)

Propagation of seismic waves, earthquake seismology, and the structure of the Earth; the origin and nature of the Earth's magnetic and gravitational fields; the Earth's internal production and flow of heat; composition, state, and rheology of the Earth's interior; plate tectonics and elementary geodynamics. (4 hrs lect)

Geol 3411. Advanced Stratigraphy: Subsurface Methods. (Sci; 4 cr; prereq 1101, 2121 or #; spring, odd years)

Techniques and methods of investigating subsurface geologic and stratigraphic features. Includes a discussion of drilling methods, subsurface mapping methods, and techniques for interpreting subsurface geologic trends. (2 hrs lect, 4 hrs lab)

Geol 3421. Airphoto Interpretation. (Sci; 4 cr; prereq 1101 or #; offered when feasible; spring)

Interpretation of geologic landforms, cultural features, and vegetative patterns as viewed from aerial photographs. Geologic features studied include volcanic, mass wasting, and glacial flow features; coastal and fluvial features; groundwater solution features, and structural features. (2 hrs lect, 4 hrs lab)

Geol 3501. Hydrology. (Sci; 4 cr; prereq Math 1101 or #; fall, every year)

Elements of surface water hydrology; groundwater occurrence and aquifer characteristics; groundwater flow mechanics and flow nets; well hydraulics; groundwater contamination, contaminant transport, and remediation; management and legal aspects of water resources. (4 hrs lect)

Geol 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Geol 4130. Advanced Geomorphology. (Sci; 4 cr [max 8 cr]; prereq 2131; offered when feasible; fall, spring)

Surficial processes and the resulting landforms; may include catastrophic events, large lakes, arid regions geomorphology or the evolution of the Badlands. (3 hrs lect, 3 hrs lab and field trips)

Geol 4140. Advanced Glacial and Quaternary Geology. (Sci; 4 cr [max 8 cr]; prereq 2141; fall, odd years)

Glacial geology and glacial history; may include pre-pleistocene glaciations, quaternary stratigraphy, or subglacial processes. (3 hrs lect, 3 hrs lab and field trips)

Geol 4901. Geology Senior Seminar. (1 cr; prereq #; required for geol major; fall, every year)

Capstone experience in Geology. Discussion of selected topics of geologic interest.

Geol 4902. Geology Senior Seminar Presentations. (1 cr; prereq #; required for geol major; spring, every year)

Capstone experience in geology. Presentations of research projects.

Geol 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

German (Ger)

This discipline is in the Division of the Humanities. The purpose of the German curriculum is to introduce students to the language, literature, and culture of German-speaking countries. The courses are designed to promote a global perspective by encouraging students to take a close look at another culture and in this way become aware of both the diversity and similarity among all people. The courses satisfy general education and major/minor requirements and prepare students for teaching or graduate study.

Objectives—Students develop a number of skills in German, including comprehension and speaking, reading and writing, in order to communicate effectively in German about everyday situations, literature, and culture. On all levels, students gain an awareness of the structure of languages and facility with the German idiom, enabling them to read and write reports and papers. In literature seminars, students learn aesthetic appreciation through the interpretation of texts and to organize their thoughts for effective argumentation. Many German courses give students an interdisciplinary perspective, using history,

art, architecture, music, and film. Cultural immersion abroad increases fluency and proficiency. The German program prepares its graduates for careers in teaching, business, political science, medicine, music, psychology, philosophy, and law.

Major Requirements

Ger 2001—Intermediate German I

Ger 2002—Intermediate German II

Ger 2011—German Conversation and Composition

Ger 3011—Readings in German

Ger 3101—Survey of German Literature and Culture I

Ger 3102—Survey of German Literature and Culture II

At least one from:

Ger 3201—Periods: German Classicism

Ger 3202—Periods: German Romanticism

Ger 3203—Periods: German Modernism

Three additional elective 3xxx or 4xxx courses (4 credits each) in German, including Hist 3156, 3204, and 3209

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

In addition to the requirements for the major, students majoring in German are encouraged to complete at least one year of instruction in another foreign language.

Minor Requirements

Ger 2001—Intermediate German I

Ger 2002—Intermediate German II

Ger 2011—German Conversation and Composition

Ger 3011—Readings in German

Ger 3101—Survey of German Literature and Culture I

Ger 3102—Survey of German Literature and Culture II

Two additional elective 3xxx or 4xxx courses (4 credits each) in German, including Hist 3156, 3204, and 3209

No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in German K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Required Proficiency/Placement Examination—Students who plan to complete courses in the same language they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

Study Abroad

In light of today's increasingly interdependent world, the UMM German faculty endorses study abroad, in combination with a German major or minor, as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one's world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Study in Austria and Germany—Students interested in a foreign study experience may spend a semester or a full year in Berlin (Humboldt University), Vienna (Center for Central European Studies), or Freiburg (University of Freiburg) through the Institute of European Studies. Language prerequisites vary for individual programs. Internships are available in all of them. Through the Learning Abroad Center, students may also participate in bilateral exchanges to Austria with Karl Franzens University in Graz and with the University of Salzburg.

Course Descriptions

Ger 1001. Beginning German I. (FL; 4 cr; fall, every year)
Introduction to German as it is spoken and written presently. The course acquaints students with the basic sounds, structures, and vocabulary of German and enables them to understand, read, and write the language and to communicate in German about everyday situations. It makes them aware of the relationship between culture and language.

Ger 1002. Beginning German II. (FL; 4 cr; prereq 1001 or placement or #; spring, every year)
Continuation of 1001.

Ger 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually

arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ger 2001. Intermediate German I. (IP; 4 cr; prereq 1002 or placement or #; fall, every year)

The skills of listening, reading, and writing are enforced through grammar review and discussion of modern texts.

Ger 2002. Intermediate German II: German Culture and Civilization. (IP; 4 cr; prereq 2001 or #; spring, every year)

A variety of readings in German to examine the historical and contemporary aspects of the culture of German-speaking countries. Students give oral reports and write papers about art, architecture, literature, philosophy, or music. They keep a journal of visits to sites on the World Wide Web relevant to topics such as geography, history, and culture.

Ger 2011. German Conversation and Composition. (IP; 4 cr; prereq 1002 or #; may enroll concurrently with 2001; fall, every year)

This course builds on grammar and structure learned in the beginning sequence. Students engage in discussions about daily activities and topics of their interest. Models for writing and speaking are provided in the form of short stories, newspaper articles, and literary excerpts. Visual materials serve as points of departure for conversation and composition.

Ger 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ger 3011. Readings in German. (IP; 4 cr; prereq 2011 or #; may enroll concurrently with 2002; soph or higher recommended; spring, every year)

Students read and analyze modern texts in order to advance their ability to comprehend and discuss various literary styles. This course is a prerequisite for more advanced courses and the major and minor.

Ger 3031. German Play. (ArtP; 4 cr; prereq 2001 or #; offered when feasible; fall, spring)

Reading, study, and presentation of a short contemporary play. Enhances fluency and familiarity with the modern German idiom.

Ger 3041. New German Cinema. (IP; 4 cr; =[Hum 3041]; prereq 3011; offered when feasible; fall)

Same as Hum 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Ger 3042. Weimar Film. (IP; 4 cr; =[Hum 3042]; prereq 3011; offered when feasible)

Same as Hum 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3101. Survey of German Literature and Culture I. (Hum;

4 cr; prereq 3011 or #; fall, every year)

Chronological study of German literature and its cultural background from the early beginnings through the 18th century. Selected representative works are read and analyzed.

Ger 3102. Survey of German Literature and Culture II. (Hum;

4 cr; prereq 3011 or #; spring, every year)

Chronological study of German literature and its cultural background from the 18th century to the 20th century. Selected representative works are read and analyzed.

Ger 3201. Periods: German Classicism. (Hum; 4 cr; prereq

3101, 3102 or #; spring, even years)

Readings in aesthetic theory and exemplary works by writers of the period. Texts by Goethe and Schiller are read and analyzed in conjunction with opera librettos based on their works. Modern films and videos of theater performances supplement the readings.

Ger 3202. Periods: German Romanticism. (Hum; 4 cr; prereq

3101, 3102 or #; spring, odd years)

Readings in Romantic theory and works by important authors of the period: Wackenroder, Tieck, Novalis, Eichendorff, and E.T.A. Hoffmann. Other art forms, such as music and painting supplement the literary discussions.

Ger 3203. Periods: German Modernism. (IP; 4 cr; prereq 3101,

3102 or #; offered when feasible; fall, spring)

Explores the culture of German-speaking countries around the turn of the 20th century (1890–1933) through literature, music, and the visual arts, especially as manifested in Symbolism, Secession (Art Nouveau), Expressionism, Dada, and New Objectivity.

Ger 3501. Women's Issues in Contemporary German Culture.

(IP; 4 cr; =[Hum 3501]; prereq 3011 or #; offered when feasible; spring)

Same as Hum 3501. Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Ger 3601. Studies in German Literature. (Hum; 4 cr; prereq

3011, #; fall, odd years)

Selected readings in German reflecting modern literary trends. The course examines the cultural politics in the evolution of the literature in the formerly divided Germany, using plays, novels, biography, and documentary reports. It deals with questions of literary theory, history, and sociopolitical structures.

Ger 3611. Austrian Studies. (Hum; 4 cr; prereq 3011 or #; fall, even years)

Selected readings in Austrian Literature from 1875 to 1925, including Marie von Ebner-Eschenbach, Rainer Maria Rilke, Arthur Schnitzler, and Hugo von Hofmannsthal. Historical background for the period through Brigitte Hamann's biography of Empress Elisabeth and/or Rudolph von Habsburg, the modern musical Elisabeth, as well as the operetta *Die Fledermaus* and Istvan Szabo's film *Oberst Redl*.

Ger 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved

directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ger 4901. Senior Project. (1–5 or [max 10 cr]; prereq 3011 or #;

fall, spring, every year)

A substantial scholarly or creative work (at the undergraduate level) in conjunction with or upon the completion of another course within the discipline. The senior project is recommended for German majors.

Ger 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved

directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

History (Hist)

This discipline is in the Division of the Social Sciences.

Objectives—The history curriculum is designed to introduce students to the study of the human past. Students majoring in history learn to approach decision-making with an awareness of a broad range of choices; learn to think critically and communicate their ideas effectively; integrate their academic study with their intellectual and moral maturation; understand the construction of historical knowledge; and learn how to learn. The curriculum emphasizes the role of the student as an active learner and encourages individualized learning experiences, including those outside of established coursework, and the development of close working relationships between students and faculty.

Major Requirements

Students should develop a coherent program of study in consultation with their major adviser. The student and adviser must meet to plan the student's course of study and ensure that the major encompasses breadth across regions and time periods. The student's plan must involve at least one western and one non-western course. The student must bring a list of history courses completed and ongoing.

When the student applies for graduation the student and adviser must meet to

- document that the student has successfully demonstrated breadth across regions and time periods in the major.
- discuss ways in which the student perceives history and historical questions as a result of thinking about history at UMM.
- evaluate what historical skills and knowledge the student has gained while studying history at UMM. Supporting evidence of such skills and knowledge may include successful papers, tutorials, student initiated studies, etc.

The adviser must keep a record of this meeting.

Hist 1101—Introduction to World History to 1500

or Hist 1102—Introduction to World History Since 1500

Division Structure and Course Descriptions

Hist 4110–4120—Tutorial in History

28 additional credits in Hist courses

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Minor Requirements

Minor requirements include Hist 1101 or 1102 and four additional courses of which at least three are at 2xxx or higher. There should be evidence of work in at least two geographic areas, with at least one of these in a non-Western area.

No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Hist 1101. Introduction to World History to 1500. (Hist; 4 cr; fall, every year)

Methods, themes, and problems in study of world history to 1500.

Hist 1102. Introduction to World History Since 1500. (Hist; 4 cr; spring, every year)

Methods, themes, and problems in the study of world history since 1500.

Hist 1301. Introduction to U.S. History. (Hist; 4 cr; fall, every year)

Methods, themes, and problems in the study of the history of the United States.

Hist 1402. Women in U.S. History. (HDiv; 4 cr; offered when feasible; fall, spring)

Themes and methods in the history of women in the United States. Topics may include women in the colonial era; American Indian, African American, and immigrant women; sex roles; women and work, family, politics, the law, and religion.

Hist 1501. Introduction to East Asian History: China, Japan, and Korea before 1800. (IP; 4 cr; offered when feasible; fall)

Examination of the social, political, economic, technological, and cultural changes in East Asia before 1800. Possible sub-themes include the rise of the Confucian world order, the spread of Buddhism, and East Asian interactions with the outside world. Discussion of changing perceptions of gender.

Hist 1601. Latin American History: A Basic Introduction. (IP; 4 cr; spring)

Methods, themes, and problems in the study of Latin American history.

Courses numbered 300x to 301x consider topics that transcend traditional chronological categories.

Hist 3001. Families Through the Prism of Memory, Genealogy, and History. (Hist; 4 cr; fall, every year)

Historical and genealogical approach to the study of family.

Hist 3004. Africa to 1700. (Hist; 4 cr; offered when feasible; fall, spring)

History of Africa to 1700.

Hist 3005. Africa Since 1700. (Hist; 4 cr; offered when feasible; fall, spring)

History of Africa since 1700.

Hist 3008. The Making of the Islamic World, 500–1500.

(HDiv; 4 cr; offered when feasible; fall, spring)

Examines the origins, spread, and impact of Islamic civilization from the 6th through 15th centuries with particular emphasis upon political, religious, and intellectual developments.

Hist 3009. Microhistory. (Hist; 4 cr; spring, odd years)

An in-depth historical examination of one or more locales and their relationship to broaden historical phenomena.

Courses numbered 310x to 311x consider topics in the political, social, intellectual, religious, and/or economic history of Europe before 1750.

Hist 3101. Renaissance and Reformation. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of western European history and historiography between 1350 and 1600 with emphasis on cultural “renaissances” and religious “reformations.”

Hist 3102. Early Modern Europe to 1750. (Hist; 4 cr; offered when feasible; fall, spring)

Survey of historical developments in Europe from about 1350 to 1750.

Hist 3103. Medieval Europe. (Hist; 4 cr; offered when feasible; fall, spring)

Survey of historical developments in Europe from about 500 to 1500.

Hist 3105. Early Medieval Europe. (Hist; 4 cr; offered when feasible; fall)

Survey of historical developments in Europe between 500 and 1100.

Hist 3106. Late Medieval Europe. (Hist; 4 cr; offered when feasible; spring)

Survey of historical developments in Europe between 1100 and 1500.

Courses numbered 315x to 316x consider topics in the political, social, intellectual, religious, and/or economic history of Europe since 1750.

Hist 3151. Modern Europe. (Hist; 4 cr; offered when feasible; fall, spring)

History of modern Europe emphasizing political, economic, social, and intellectual developments since 1789.

Hist 3156. Modern German Intellectual History. (Hist; 4 cr; offered when feasible; fall, spring)

Many of the most influential ideas of the 19th and 20th centuries emerged from the German-speaking world and it is worth considering how and why that happened. Examination of the German intellectual history since 1815 and the various relationships between ideas and politics that have shaped German state-building, as well as the ways in which those ideas have had other lives in other places.

Hist 3159. Europe's 20th Century. (IP; 4 cr; fall)

Consideration of Europe's “age of extremes,” from the convulsions of social change at the beginning of the

1900s through the revolutions and world wars whose long-term effects produced the Europe seen today, with all of its tensions and potential. Use of primary documents, historical interpretations, fiction, and film to examine historical events and the past and present attitudes of Europeans toward them. Major problems in 20th-century European history and how historians approach them.

Hist 3161. The Enlightenment. (Hist; 4 cr; offered when feasible; fall, spring)

The intellectual ferment of the Enlightenment has been given the credit and the blame for all things modern—from the concept of human rights and the democracies it has engendered to the subversion of those rights in the totalitarian regimes of the 20th century. Exploration of the ideas of the Enlightenment and their political context and attempt to answer the question of how such an important development in human history can be viewed in such contradictory ways.

Courses numbered 320x to 321x consider topics in the political, social, intellectual, religious, and/or economic history of selected European nations.

Hist 3202. Russian Revolution. (Hist; 4 cr; offered when feasible; fall)

History of the Russian Revolution. Origins, the March and October Revolutions, the Civil War, and beginnings of Communist rule.

Hist 3204. Nazi Germany. (Hist; 4 cr; offered when feasible; fall, spring)

History of Nazi Germany. Social and political origins, Nazi rule in the 1930s, the “final solution,” World War II, and Germany’s attempt to assess this era in its history.

Hist 3207. The Crusades. (IP; 4 cr; offered when feasible; fall, spring)

Explores the historical contexts and consequences of the European Crusades between the 11th and 13th centuries, including the perspective of European Jews, Turkish and Arabic Muslims, and Byzantine and Near Eastern Christians.

Hist 3209. Modern Germany. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of German history from the development of German national ideas through unification and consolidation of the modern German state in 1871 and through its re-unification at the end of the 20th century. Examines one of the most fascinating and tumultuous periods in German and European history, why the attempt to understand the German past has occupied so many historians, and why the debates surrounding that attempt have been so contentious. Sources include writings by established historians of Germany, novels, films, and music.

Hist 3210. Popular Religion, Heresy, and Inquisition in the Middle Ages. (Hist; 4 cr; offered when feasible; fall, spring)

The history of popular religious belief and practice in medieval Europe and the relationship between heresy, reform, and inquisition. Topics may include pilgrimage, prayer, saints and sacraments; religious roles for laypeople and women; new orders and heresies; and the late-medieval growth of inquisitorial activity and administration.

Hist 3211. Modern France. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of French culture and history from the Revolution (1789) to the present. The ways in which successive governments, from Napoleon’s empire through the Fifth Republic, have come to terms with legacies of the Revolution such as national citizenship, individual rights, and the politicization of women.

Hist 3251. American Indians and the United States: A History. (HDiv; 4 cr; spring, every year)

The experience of the original Americans and their interaction with later immigrants.

Courses numbered 330x to 331x consider topics in the political, social, intellectual, religious, and/or economic history of North America or the United States before 1865.

Hist 3301. Red, White, and Black: Race/Culture in Early America. (HDiv; 4 cr; fall, every year)

History of race in early America. Exploration of the coming together of three groups of peoples—Africans, American Indians, and Europeans—and the roles which they played in the emergence of the “first new nation.”

Hist 3302. African American History to 1865. (HDiv; 4 cr; offered when feasible; fall, spring)

The African-American experience in historical perspective: African origins; slavery, struggles for freedom and equality; cultural, economic, political, and social development in a slave society.

Hist 3303. Creation of the American Republic. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of the history of the United States from the beginning of the Seven Years’ War in 1754 to the end of the War of 1812. The origins of the nation and the political, cultural, and social changes that accompanied the birth and early years of the American Republic. Focus on the political and social history of the American Revolution. Other topics include women in revolutionary America, the retrenchment of slavery, indigenous people and early Indian policy, religion and revivalism, the constitutional crisis, and the early presidencies.

Courses numbered 335x to 336x consider topics in the political, social, intellectual, religious, and/or economic history of the United States since 1865.

Hist 3351. The U.S. Presidency Since 1900. (SS; 4 cr; spring, odd years)

History of the 20th-century U.S. presidency. Brief consideration of the presidency before 1900, analysis of performance of presidents since 1900 in roles of chief executive, commander-in-chief, chief diplomat, and chief of state during an era of enlarged governmental functions at home and world power abroad.

Hist 3352. The U.S. 1960s. (Hist; 4 cr; offered when feasible; fall, spring)

History of the United States in the 1960s. Backgrounds to the 1960s; political and cultural issues of the decade; the Kennedy promise, civil rights and other movements, Vietnam war, counterculture, conservative backlash, and legacy.

Division Structure and Course Descriptions

Hist 3353. World War II. (Hist; 4 cr; offered when feasible; fall, spring)

Origins, political and military aspects of the war in Europe and Asia, domestic mobilization, the Holocaust and Atomic Bomb, aftermath.

Hist 3355. U.S. in Transition, 1877–1920. (Hist; 4 cr; offered when feasible; fall, spring)

Topics, themes, and problems in U.S. history, 1877 to 1920.

Hist 3356. Civil Rights Movement, 1954–1974. (Hist; 4 cr; offered when feasible; fall, spring)

Background of the Civil Rights movement, emergence of the theory and practice of nonviolence, various Civil Rights groups, role of women, legislative and other accomplishments of the movement, its aftermath and influence.

Hist 3357. African American History Since 1865. (HDiv; 4 cr; offered when feasible; fall, spring)

The African-American experience in historical perspective: the emancipation era; struggles for freedom and equality after slavery; cultural, economic, political and social development in an industrial and post-industrial society.

Hist 3358. Civil War and Reconstruction. (Hist; 4 cr; spring, even years)

Origin, context, and significance of the Civil War and Reconstruction.

Hist 3359. Native Strategies for Survival, 1880–1920. (HDiv; 4 cr; fall, every year)

Exploration of the events and policies that sought to eliminate American Indian communities and cultures and the strategies that American Indians developed to survive. Students gain insight into a pivotal time for the “incorporation” of the U.S. and ongoing tensions between unity and diversity that characterize the nation’s political economy and social structure. Paradoxes under scrutiny include the degree to which policies claiming to emancipate actually imprisoned and prisons became homelands.

Courses numbered 345x to 346x consider topics and themes in U.S. history that transcend traditional chronological categories.

Hist 3451. Facing West. (HDiv; 4 cr; spring, odd years)

History of the American West. What is the West to the United States? Examination of the meaning of the West as both place and process for U.S. history; exploring the distinctive role that the West has played in the development of the U.S. from 1790 to the 21st century. Special emphasis on the interplay between different peoples in the vast and varied region.

Hist 3452. Minnesota History. (Hist; 4 cr; offered when feasible; fall, spring)

Examination of the social, cultural, and political history of Minnesota with emphases on American Indian and European-American conflict, immigration and ethnicity, the development of political culture, and the changing nature of regional identity.

Hist 3453. The American Presidency, 1789–1900. (Hist; 4 cr; offered when feasible; fall, spring)

Growth and development of the U.S. presidency during its first century. Emphasis on selected presidencies such as those of George Washington, Thomas Jefferson, Andrew Jackson, James K. Polk, Abraham Lincoln, and William McKinley.

Hist 3455. American Immigration. (Hist; 4 cr; offered when feasible; fall, spring)

The role of voluntary migration in U.S. history from the late 18th century to the present. Emphases on settlement, ethnicity, nativism, transnational issues, and immigration law. Possible topics include European immigrants and “whiteness,” restriction of immigration from Asia, ethnicity and U.S. foreign and military policy, and the varieties of immigration, legal and undocumented, since 1965.

Hist 3456. History of Religion in America. (Hist; 4 cr; offered when feasible; fall, spring)

The history of religion in American life from the perspective of ordinary Americans. Religious diversity receives special emphasis. Topics may include New England witchcraft, the First and Second Great Awakenings, American Indian belief systems, nativism and Anti-Catholicism, religion and politics, immigrant religion and new fundamentalist movements.

Hist 3457. American Biography and Autobiography. (Hist; 4 cr; offered when feasible; fall, spring)

Seminar and readings in biography and autobiography; a long paper on an aspect of the biography of an American of the student’s choice.

Hist 3458. Public History. (Hist; 4 cr; offered when feasible; fall, spring)

Introduction to methods and approaches to public history, drawing from the West Central Historical Research Center and UMM archives.

Hist 3459. Lewis and Clark: An American Odyssey. (Hist; 4 cr; offered when feasible; fall, spring)

The journey of Meriwether Lewis and William Clark and the men under their command has long been considered the quintessential American adventure and an audacious exercise in individual courage. What was the object of the Corps of Discovery’s journey? Why does this journey remain such a compelling story almost two centuries after it concluded? [Continuing Education course]

Hist 3462. A History of Rural America. (Hist; 4 cr; offered when feasible; fall, spring)

The history of the United States from the beginning of European settlement to the present. Primary focus is on average people—farmers and townsfolk—and the impact of economic change on social and political life. Special attention to the varied response of different groups of rural Americans, e.g., immigrants, women, African Americans, to changes within American agriculture. Includes a research component.

Courses numbered 355x to 356x consider topics in the political, social, intellectual, religious, and/or economic history of selected Asian nations.

Hist 3551. Modern Japan. (Hist; 4 cr; fall, odd years)

The history of Japan from the foundation of the Tokugawa Shogunate until the present. Special attention to issues of gender, nationalism, and modernity.

Hist 3552. History of Modern China. (Hist; 4 cr; offered when feasible; spring)

Study of the history of China from the foundation of the Qing dynasty in the 1600s until the present. Special attention to issues of gender, nationalism, and modernity.

Hist 3554. Korean History. (Hist; 4 cr; fall, even years)

The history of the Korean peninsula from neolithic times to the present. Special attention to evolving Korean understandings of gender and technology.

Hist 3556. U.S. Occupation and Japanese Transwar History, 1930–1970. (IP; 4 cr; offered when feasible; fall, spring)

Examination of Japan's transformation from pre-World War II authoritarian state (1937–1945) to postwar liberal democracy (1953–1970). Adoption of a “transwar” approach to both periods.

Courses numbered 360x to 361x consider topics in the political, economic, social, intellectual, religious, and/or economic history of Latin America.

Hist 3601. Great Books in Latin American History. (IP; 4 cr; fall, every year)

A look at Latin American history through great books.

Hist 3607. Aztec Culture and History. (IP; 4 cr; offered when feasible; fall, spring)

A survey of Aztec culture and history. The art and architectures, religion, language, and literature of the Aztecs in historical perspective, from their origins into the Spanish colonial period.

Hist 3608. The Cuban Revolution in Historical Perspective.

(Hist; 4 cr; spring, every year)

A survey of modern Cuban history with an emphasis on the Cuban Revolution. An introduction to a wide variety of perspectives.

Courses numbered 370x to 371x consider topics in the political, economic, social, intellectual, religious, and/or economic history of women.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; offered when feasible; fall, spring)

Analysis of the history of European women and gender systems as constructed during the Middle Ages (c. 500–1500).

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)

Examination of lives of women in Europe from about 1350 to 1750.

Hist 3707. Gender in East Asia. (HDiv; 4 cr; spring, odd years)

Study of the changing perceptions of gender in East Asia from its earliest written records until the present. Special emphasis on the changing role of women in East Asia. Exploration of the way gendered discourse affected broader understandings of society, politics, the economy, and culture. Background in East Asian history, while preferred, is not required.

Hist 3708. European Women's History, 1600–Present. (IP; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)

Examination of the forces that have shaped the lives of European women since 1600 and analysis of how changes in the structures of power and authority—religious, political, social, familial—affected the choices available to them. Students engage critically with the question of what bringing gender to the forefront of the study of European history has to teach them. Students gain an understanding of many of the underpinnings of American society, which has been deeply affected by European patterns of thought about women and their place in the world.

Hist 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Hist 4110. Tutorial in History. (1 cr [max 2 cr]; prereq history major, #; no cr for 4110 until 4120 completed; fall, spring, every year)

A culminating historical research project. Students who wish to graduate in December must begin this project the preceding spring. Students should register for 4110 before 4120.

Hist 4120. Tutorial in History. (4 cr [max 8 cr]; prereq history major, #; no cr for 4110 until 4120 completed; fall, spring, every year)

A culminating historical research project. Students who wish to graduate in December must begin this project the preceding spring. Students should register for 4110 before 4120.

Hist 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Honors Program

(See Academic Information section for detailed program requirements and a sample course list.)

Humanities (Hum)

This interdisciplinary group of courses is in the Division of the Humanities.

Objectives—Humanities courses are designed to introduce students to their cultural heritage. This interdisciplinary area explores the literatures and other art forms of the world. Advanced courses in the Division of the Humanities supplement the introductory courses.

Course Descriptions

Hum 1001. Contesting Visions of the American West. (HDiv; 4 cr; offered when feasible; fall)

Examines literary and cultural representations of the American West from a range of perspectives, including those of Asian and European immigrants, explorers, and American Indians.

Hum 1002. Norse Saga. (Hum; 4 cr; offered when feasible)

Study of medieval sagas, in translation, from Iceland and Norway, and the culture that produced them.

Hum 1003. The King James Bible. (Hum; 4 cr; offered when feasible)

Some of the ways that language and themes of the King James Bible have shaped the themes, language, and values in English and American literature.

Hum 1005. Myth and Literature. (Hum; 4 cr; offered when feasible)

How classical mythology has been used in literature, poetry, drama, and fiction.

Division Structure and Course Descriptions

Hum 1051. Greek Drama. (Hum; 4 cr; offered when feasible; spring)
Study of Greek drama.

Hum 1054. Backgrounds to Literature: Classical Mythology. (IP; 4 cr; offered when feasible)

A look at primary texts in Greek and Roman myth and at the ways English and American writers have made use of those myths from the Renaissance to the present.

Hum 1101. The European Novel. (Hum; 4 cr; offered when feasible; fall)

Readings in major continental novelists of the 19th and 20th centuries.

Hum 1104. Major Works of Italian Literature in Translation from the Middle Ages to the Present. (Hum; 3 cr; offered when feasible)

Survey of Italian literature from the Middle Ages to the present. Attention given to major works of narrative, poetry, and drama of various periods. This course is conducted in English. [Continuing Education course]

Hum 1105. Italian Cinema. (IP; 3 cr; offered when feasible)

Study of Italian cinema from the silent era to the present, focusing on significant genres and directors, as well as on critical approaches to film studies. Taught in English; all films have English subtitles. [Continuing Education course]

Hum 1302. French Cinema. (IP; 4 cr; =[Fren 1302]; fall, even years)

Same as Fren 1302. The history of filmmaking in France from the Lumière brothers to the present; introduction to major trends in film theory. Taught in English, all films have English subtitles. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1302.

Hum 1303. Paris as Text/Image/Sound. (IP; 4 cr; =[Fren 1303]; offered when feasible)

Same as Fren 1303. Explores how representations of Paris in literature, film, music, and photography have been a key to the construction and the lived experience of the city and how new forms of writing, image-making, and sound production have emerged from the modern metropolis. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1303.

Hum 1304. French Women Authors in Translation. (IP; 4 cr; =[Fren 1304]; fall, odd years)

Same as Fren 1304. French women's movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1304.

Hum 1311. West African Francophone Cinema. (IP; 4 cr; =[Fren 1311]; fall, odd years)

Same as Fren 1311. Introduction to the history of cinema in French-speaking West Africa. Students learn to read African films, to recognize and analyze political themes in the films, and to become sensitive to issues facing many African nations in the postcolonial world. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1311.

Hum 1312. Morocco: History, Story, Myth. (IP; 4 cr; =[Fren 1312]; Prereq-#: offered when feasible; summer)

Same as Fren 1312. Study of the ways that history, myth, and storytelling intertwine to create Moroccan identity.

Examination of the entwining of history into myth. Study of the different methods of telling stories through orality, literature, weaving, ceramics, and music. Taught in English and all coursework is done in English. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1312. [Continuing Education course]

Hum 1361. Literary Representation of India and the Orient. (IP; 4 cr; offered when feasible)

Examination of literary texts depicting India and the Orient. Discussion of concepts of orientalism, exoticism, and the postcolonial discourse relating to these texts.

Hum 1552. Literature and History of Jewish and Muslim Spain. (IP; 4 cr; offered when feasible; summer)

Introduction to representative works of literature (taught in English and translated from Spanish, Hebrew, and Arabic) written by or about Spanish Jews and Muslims from the middle ages to the periods of the expulsion of these people from Spain (Jews in 1492 and Muslims in 1609). Comprehension of these works in light of their sociohistorical contexts. [Continuing Education course]

Hum 1561. Hispanic Film. (IP; 4 cr; offered when feasible; fall)

Viewing, study, and discussion of the most representative Hispanic cinema coming out of Spain, the United States, and Latin America. The form of the cinema and its specific cultural and political context.

Hum 1571. Contemporary Latin American Women Writers. (IP; 4 cr; offered when feasible; spring)

Introduction to the literature produced by contemporary (20th-century) Latin American women writers, concentrating on the political and sociohistorical context in which these works are located. Focus is on class, gender, race/ethnicity, sexual orientation, and cultural issues as reflected in women's literature.

Hum 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Hum 2011. On War: History, Ethics, and Representations of Modern Warfare. (Hum; 4 cr; prereq Engl 1011 or equiv; offered when feasible; fall)

Explores accounts of several 20th-century American wars. Includes a wide range of course materials (film, journalistic accounts, philosophical essays, and literary texts) and perspectives on war—from the generals to the “grunts” and nurses, from American and non-American perspectives, and from scholarship to oral narratives.

Hum 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Hum 3041. New German Cinema. (IP; 4 cr; =[Ger 3041]; offered when feasible; fall)

Same as Ger 3041. Traces the development of New German Cinema, which began in the 1960s, and continues in the post-unification period. Introduction to films by both East and West German directors who define this national cinema; the cultural, political, and economic context of its production; reference to theories and critiques to provide an overview of German film and culture of the period. Film presentations are in German

with English subtitles. Readings and lectures are in English. Final papers are either in German (for German credit) or English (for Humanities credit).

Hum 3042. Weimar Film. (IP; 4 cr; =[Ger 3042]; offered when feasible)

Same as Ger 3042. Development of the German film as expressionistic art form. Film as text, film as history, film as aesthetic expression. Film presentations are in German but with English subtitles in most cases. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Hum 3051. Russian Literature. (Hum; 4 cr; offered when feasible; spring)

Study of Russian literature in translation. Special attention to the works of Dostoyevsky, Tolstoy, and Chekhov.

Hum 3501. Women's Issues in Contemporary German Culture. (IP; 4 cr; =[Ger 3501]; offered when feasible; spring)

Same as Ger 3501. Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Hum 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Hum 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Interdisciplinary Studies (IS)

This is an interdisciplinary group of courses under the authority of the vice chancellor for academic affairs and dean.

Objectives—Through interdisciplinary studies, students may investigate subjects viewed from the perspectives of two or more traditional academic disciplines. Interdisciplinary studies may take the form of well-structured internships or regular classroom courses, or directed study projects that stimulate close student-faculty relationships.

Students interested in interdisciplinary internships or directed study projects should consult with their advisers and appropriate division chairs concerning a course prospectus, proposed study activities, and proposed criteria and methods for evaluating their work. In the case of internships, students should discuss their plans with the director of the Career Center, who assists with internship placements. A signed

Directed Study Approval form or *Internship Approval* form (available on the academic affairs Web site) is required in order to register for an interdisciplinary directed study or internship. The approval of the vice chancellor for academic affairs and dean is necessary to register for an interdisciplinary studies directed study or an internship.

Course Descriptions

IS 1001. First-Year Seminar: Human Diversity. (FYS; 2 cr; fall, every year)

This first-year course aims to facilitate students' transition from high school to a collegiate environment. Special emphasis is placed on themes that help sensitize students to the spectrum of ideas within the academic setting as well as contemporary society. Includes an evening convocation in early September and an all-day Jamboree on Thursday during the 12th or 13th week of the term.

IS 1036. The Re-Emerging Threat of Infectious Disease.

(2 cr; prereq admission to Summer Scholars Program; S-N only; summer, every year)

Exploration of infectious disease from a variety of topics ranging from the basic biology of pathogens (bacteria, viruses, protozoa, and prions) to the social cost of disease on a global scale. Other topics include immunology, antibiotic and vaccine development, epidemiology and public health. Laboratory component focusing on microbiological techniques and epidemiological modeling. [Continuing Education course]

IS 1038. Talking About a Revolution: Dissent and Freedom of Expression in Today's World. (E/CR; 2 cr; prereq admission to Summer Scholars Program; S-N only; summer, every year)

Examination of the evolution and current nature of dissent and free expression in the United States. Analysis of forms of dissent, legal definitions, acceptable or protected dissent, governmental response to dissent, and the impact of forces such as geography, language, and technology on dissent. Emphasis on the way contexts (national, legal, historical) shape expression and responses to it. [Continuing Education course]

IS 1041. Health Sciences Terminology. (2 cr; fall, spring, every year)

A self-study course that has been designed to provide students with a working knowledge of the terminology utilized in the health sciences. There are no formal class sessions. Students take four tests during the term. [Continuing Education course]

IS 1051. Introduction to College Learning Skills. (4 cr; prereq participation in Gateway Program or #; counts toward the 60-cr general ed requirements; S-N or Aud, summer, every year)

Essential skills for success in higher education. Introduction to computing technology, writing, and math skills. Academic and social skills needed for transition from high school to college.

IS 1061. Learning to Learn. (SS; 2 cr; prereq #; S-N only; fall, spring, every year)

Basic learning and thinking skills: procedures for acquiring knowledge and conducting academic inquiry; formulating and evaluating ideas, arguments, and abstract principles. Introduction to elements of the learning process. Assessment of individual approaches and development of individual strategies for learning.

Division Structure and Course Descriptions

IS 1071. Systematic Introduction to the Art and Science of Emergency Medical Care. (4 cr; prereq registration with the Stevens County Ambulance Services; arrangements must be made by contacting them at 320-589-7421; S-N only; fall, spring, every year)

Introduction to emergency medical care. Develops skills and knowledge to respond appropriately to a medical emergency. (The Stevens County Ambulance Service sets and requires an independent fee.)

IS 1091. Ethical and Social Implications of Technology. (E/CR; 2 cr; fall, spring, every year)

Description of appropriate technological advances. Historical development related to technology and its development cycle. Discussion of the ethical and social implications of technology.

IS 1301. Dakota Language I. (FL; 4 cr; fall, every year)

An introduction to speaking, writing, and reading Dakota language and an overview of Dakota culture. [Continuing Education course]

IS 1302. Dakota Language II. (FL; 4 cr; prereq 1301 or #; spring, every year)

A continuation of 1301 with greater emphasis on conversation and culture. [Continuing Education course]

IS 1321. Study-Travel Programs Emphasizing Diversity. (1 cr [max 2 cr]; offered when feasible; summer)

Short-term study/travel programs based upon the theme of human diversity. Locations vary, but emphasis is on travel to domestic or international sites that offer unique perspectives and direct contact with environments significantly different from the Midwest (in geography, ethnicity, history, culture, and values). [Continuing Education course]

IS 1331. Disability in America: Politics, Art, and Culture(s). (Hum; 4 cr; offered when feasible; fall, spring)

Examination of the history of the Disability Rights Movement, the social stigma and stereotypes that have hindered the lives of disabled Americans, and the formation of a disabled identity and its expression in literature and the arts. [Continuing Education course]

IS 1341. Introduction to World Religions. (HDiv; 3 cr; offered when feasible; fall, spring)

Examination of historic and contemporary world religions. Focus on eight religions (Hinduism, Buddhism, Confucianism, Taoism, Shintoism, Judaism, Christianity, Islam) and their component elements of creed, cult, code, community, and canon. Exploration of other religious traditions including Native American, African, goddess, earth-based, and New Age. [Continuing Education course]

IS 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

IS 2001H. Honors: Traditions in Human Thought. (Hum; 2 cr; prereq participation in the Honors Program or #; fall, every year)

A study of a selection of significant works from history, literature, philosophy, science, and religion across continents from the earliest writings to the present day. Critical reading, writing, and discussion in an interdisciplinary context are emphasized.

IS 2011. English Language Teaching Assistant Program. (IP; 6–13 cr [max 13 cr]; =[IS 3011]; S-N only; fall, spring, summer, every year)

Students assist teachers of English in countries where English is not the primary language. [Continuing Education course]

IS 2035. Aging in Greece: Comparative Cultural Practices and Social Policy. (IP; 4 cr; offered when feasible; summer)

International service-learning course in Athens and the island of Ikaria that explores cross-cultural differences between Greece and the United States in the meaning and experience of aging, as well as in the social and institutional supports for the aging population. Focus on the role of the community and public sector in promoting optimal aging. [Continuing Education course]

IS 2036. Chinese Language and Culture. (IP; 4 cr; offered when feasible; summer)

A study abroad program providing an introduction to the rich history and culture of China and the Mandarin language. For students with advanced language skills, higher level language instruction is available. Evaluation is based on course work at Capital Normal University in Beijing as well as participation in group discussions and programs. [Continuing Education course]

IS 2037. China: Traditions and Transformations. (IP; 4 cr; offered when feasible; summer)

Introduction to the rich history and culture of China. Investigation of changes in China due to recent economic development. Consideration of the impact of this development on other countries and on their lifestyle through exploration of international connections with China. A study abroad course. Required monthly meetings for six months prior to class departure. [Continuing Education course]

IS 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

IS 3011. English Language Teaching Assistant Program for Majors. (IP; 6–13 cr [max 13 cr]; =[IS 2011]; prereq jr status, #; S-N only; fall, spring, summer, every year)

Students assist teachers of English in countries where English is not the primary language. Cultural and school experiences are linked to a major area of study. Students are encouraged to consult with their advisor regarding how this course might fit within their major. Assignments require students to demonstrate how the ELTAP experience connects to the content major. [Continuing Education course]

IS 3020. Italy and Austria: Brunnenburg and Beyond. (IP; 4 cr [max 8 cr]; offered when feasible; summer)

The focus of the course will be the Habsburg period of the Austro-Hungarian Empire (1848–1914) at Brunnenburg, with possible travel to Vienna, Krakow, Budapest, or Prague for further cultural exploration. Open to students of all levels from all disciplines. [Continuing Education course]

IS 3051. Cultural and Choral Performance Tour of the British Isles. (IP; 4 cr; S-N only; offered when feasible; summer)

A cultural and choral tour of the United Kingdom. Introduction to the society and culture of the United Kingdom through readings, written assignments, lectures, and guided tours that demonstrate the diversity of Great Britain. Students present choral performances in such

settings as public buildings, schools, churches, museums, galleries, and parks. [Continuing Education course]

IS 3110. Rural Community Field Project: Center for Small Towns. (SS; 1-6 cr [max 6 cr]; prereq #; SS [if taken for 2 or more cr]; S-N only; offered when feasible; fall, spring)

An educational experience in a rural learning environment that focuses on rural issues of community life, demography, culture, environment, and policy. A collaborative effort between Center for Small Towns and a public rural entity provides a structured environment in which civic engagement objectives are achieved and grounded in a practical setting. Students gain a valuable understanding about the historical social structures of rural society and witness these structures firsthand. [Continuing Education course]

IS 3111H. Honors: The End of the World as We've Known It: The Apocalypse Then and Now. (SS; 2 cr; prereq participation in Honors Program or #; offered when feasible; spring)

Exploration of the occasions and representations of apocalyptic views, focusing on the historical, political, and psychological implications. Antecedents and effects of end-of-the-world prophecies are explored through the use of popular culture (e.g. music, science fiction, other media), writings from across cultural and religious frames of reference, and various historical, political, and psychological resources.

IS 3122. Leadership in Today's World. (E/CR; 4 cr; prereq soph status or #; counts as an elective or for Human Resource track in Mgmt; offered when feasible; summer)

Examination of leadership theories along with an overview of best practices in organizational administration and leadership. Course requirements include an internship or alternative practicum experience. [Continuing Education course]

IS 3203H. Honors: A Cross-Section of the Enlightenment. (Hist; 2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

A cross-section of the cultural and intellectual history of the 18th century. Figures to be studied may include Descartes, Newton, Locke, Hume, Hobbes, Rousseau, Voltaire, Lavoisier, d'Holbach, and Blake.

IS 3204H. Honors: Ecological Health and the Sustainability of Common-Property Resources. (Envt; 2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

Exploration of "sustainability" from the perspective of economics and ecology. Examples might include ocean fisheries, the rain forest, the introduction of alien species, and the global climate.

IS 3205H. Honors: The Early Modern Body in Literature, Philosophy, and Science. (Hum; 2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

Examination of the medical, philosophical, and literary treatment of the human body in early modern Europe. Readings from both primary and secondary sources. Texts include works by Rene Descartes, Julien Offray de la Mettrie, William Harvey, "The Oxford Group," and others.

IS 3206H. Honors: Introduction to Game Theory. (M/SR; 2 cr; prereq participation in the Honors Program, high school higher algebra or #; offered when feasible; fall, spring)

Introduction to the formal theory of strategic interaction and to the intuitions behind the theory. Applications to a selection of problems in the natural and social sciences, such as biological evolution, tacit collusion in pricing, strategic behavior in international relations, and strategy in legislative voting.

IS 3207H. Honors: Utopia(s). (Hum; 2 cr; prereq participation in Honors Program or #; offered when feasible; fall)

The concept of utopia from an interdisciplinary and cross-cultural perspective, drawing from various traditions including literature, the visual arts, and the social sciences. Expertise of guest lecturers in these diverse areas included.

IS 3208H. Honors: Totalitarianism: Imagination, Theory, and Experience. (SS; 2 cr; prereq participation in Honors Program or #; offered when feasible; spring)

The concept of totalitarianism as it has been theorized, analyzed, and written about in fiction and personal accounts. The approach is cross-cultural and interdisciplinary, and considers the evolution of the concept and experience of totalitarianism over the course of the 20th century.

IS 3209H. Honors: Apocalypse Now? The Science and Policy of Preparing for a Catastrophe. (Envt; 2 cr; prereq participation in Honors Program or #; offered when feasible; fall, spring)

Popular visions, policy response, and scientific underpinnings of potentially catastrophic societal problems past and present. Do we worry about the right things? How do scientists, politicians, and purveyors of popular culture assess which threats warrant attention? (two 50-min lect/disc plus multiple evening film screenings)

IS 3211H. Honors: Republic or Empire? The American 1890s. (Hist; 2 cr; prereq participation in the Honors Program or #; offered when feasible; fall, spring)

The 1890s are often seen as a cultural watershed for the United States. Depression, political movements, and a "splendid little war" against Spain and the Philippines represent only the surface of a decade which altered aspects of race, class, gender, and literary sensibility.

IS 3212H. Honors: Global Encounters and the Making of the Contemporary World, 1450 to the Present. (HDiv; 2-4 cr [max 4 cr]; prereq high school higher algebra, participation in Honors Program or instr consent; offered when feasible; spring)

An exploration of the initial interaction among the indigenous people of Africa and the Americas with the people of Europe. Parallel immediate and long-term effects of these initial encounters are identified and discussed.

IS 3221H. Honors: Open Source vs. Proprietary Technology: The Economics of Networks and Innovation. (SS; 2 cr; prereq participation in Honors Program or #; spring)

An exploration of the technological, legal, and economic factors shaping the evolution of knowledge networks, with particular reference to the open-source model of software development and its competitors.

IS 3231H. Honors: Drama, Philosophy, and Politics in Classical Greece. (Hum; 2 cr; prereq participation in Honors Program or #; fall, spring)

Examination of political and philosophical theories found in Plato and Aristotle as revealed in the dramatic works of Aeschylus and Euripides, among others.

IS 3705. Peer Tutoring Theory. (SS; 3 cr; prereq #; fall, every year)

Topics in pedagogical theory regarding peer tutoring processes. Practice in peer tutoring.

IS 3710. Peer Tutoring in College. (1 cr [max 3 cr]; prereq 3705; fall, every year)

Tutor students in selected courses.

Division Structure and Course Descriptions

IS 3720. Tutoring Writing Across the Disciplines. (1 cr [max 6 cr]; prereq Engl 1011 or equiv, soph standing, #, coreq Engl 3005 for students in their first sem at the Writing Room; fall, spring, every year)

Tutor student writers at the Writing Room; meet regularly with other tutors for ongoing training in peer writing tutoring.

IS 3800. Practicum in Social Sciences. (1-2 cr [max 4 cr]; prereq #; S-N only; fall, spring, every year)

Supervised experience of selected learning activities such as discussion group leader, lab assistant, research assistant, or other teaching-related activities.

IS 3810. Practicum in the Humanities. (1-2 cr [max 4 cr]; prereq #; S-N only; fall, spring, every year)

Supervised experience of selected learning activities such as discussion group leader, test review leader, research assistant, or other teaching-related activities.

IS 3893. Prior Learning Directed Study. (1-4 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized learning project combining prior learning with faculty-directed new learning, awarding academic credit for both. (When content is discipline-related, discipline designation will appear on transcript and credit may count toward appropriate general education requirement category.)

IS 3896. Prior Learning Internship. (1-16 cr [max 32 cr]; prereq approved internship form; S-N only; fall, spring, every year)

An educational experience in a work environment providing field application for the student's theoretical classroom learning experiences. The prior learning internship, such as in social service or business settings, occurred prior to the student's matriculation. The prior learning is documented and combined with faculty-directed new learning, with credit awarded for both.

IS 3993. Directed Study. (1-5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

IS 3996. Interdisciplinary Internship. (1-16 cr [max 32 cr]; prereq approved internship form; S-N only; fall, spring, every year)

One-semester educational experience in a work environment providing field applications for the student's theoretical classroom learning experiences. *Approved Learning Contract* required for registration.

IS 4101. Intro to Prof Conduct, Legal Constraints, Ethics in Human Services. (E/CR; 2 cr; prereq jr, 10 cr 3xxx or 4xxx human services courses or #; fall, spring, every year)

Concepts of professional ethics in human services professions; ethically relevant legal mandates and constraints on professional practice; practical problems in the application of ethical principles.

IS 4993. Directed Study. (1-5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

IS 4994H. Senior Honors Project. (1-4 cr [max 8 cr]; prereq approved Honors project form, participation in Honors Program; fall, spring, every year)

A substantial scholarly or creative interdisciplinary work designed by the student working cooperatively with a project adviser. Upon completion, the project is defended before a panel of faculty from different disciplines. Successful completion of the senior honors project is one of the requirements for graduating from UMM "with honors."

Italian (Ital)

This discipline is in the Division of the Humanities. The Italian discipline introduces students to the study of the language, literature, and culture of Italy. The courses satisfy foreign language and other general education requirements.

Objectives—The Italian discipline is designed to help students develop a number of skills in Italian, including comprehension and speaking, reading, and writing, in order to communicate effectively in Italian on a broad range of topics. The courses are designed to help students develop critical insight into the philosophy and values of another culture as they increase their competence in a second language.

Study Abroad

In light of today's increasingly interdependent world, the UMM Italian discipline endorses study abroad as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one's world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Course Descriptions

Ital 1301. Beginning Italian I. (FL; 4 cr; fall, every year)

Introduction to Italian as it is presently spoken and written. Basic sounds, structures, and vocabulary of Italian. Understanding, reading, and writing the language and communicating in Italian about everyday situations. Relationship between culture and language. [Continuing Education course]

Ital 1302. Beginning Italian II. (FL; 4 cr; prereq 1301 or placement or #; spring, every year)

Continuation of 1301. [Continuing Education course]

Ital 1311. Modern Italy Through Literature and Film. (Hum;

3 cr; offered when feasible; fall, spring)

Examination of the political, social, and cultural transformations of Italy from its unification in the second half of the 19th century to contemporary issues of immigration and multiculturalism as reflected in literature and film. Topics include the unification and forging a new national identity; life under Fascism; the Resistance and post-war period; the “southern question;” the “economic miracle” of the 1960s; recent immigration and current cultural transformations. [Continuing Education course]

Ital 1321. Intermediate Italian I. (IP; 4 cr; prereq 1302 or #;

offered when feasible; fall, spring)

Continued development of listening, reading, writing, and speaking skills; review of the fundamental elements of the Italian language. Emphasis on authentic cultural and literary texts appropriate to this level. [Continuing Education course]

Ital 1331. The Eternal City: The Language and Culture of Rome I. (FL; 4 cr; offered when feasible; summer)

Beginning course for UMM study abroad in Rome, Italy. Four weeks of Italian language together with the art and literature of Rome. Emphasis on works of art, literature, and film belonging to several periods and addressing the history and character of the city. Excursions to relevant sites in and near Rome. No previous experience in Italian required. [Continuing Education course]

Ital 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ital 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ital 3331. The Eternal City: The Language and Culture of Rome II. (IP; 4 cr; prereq 1302 or equiv; offered when feasible; summer)

Advanced course for UMM study abroad in Rome, Italy. Four weeks of Italian language together with the art and literature of Rome. Emphasis on works of art, literature, and film belonging to several periods and addressing the history and character of the city. Excursions to relevant sites in and near Rome. [Continuing Education course]

Ital 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Ital 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, summer, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Latin American Area Studies (LAAS)

This is an interdisciplinary major under the authority of the vice chancellor for academic affairs and dean. The program is administered by the coordinator of Latin American Area Studies. Students must enroll through the LAAS coordinator.

Objective—To provide a basic introduction to the cultures and societies of Latin America, to provide the means essential to gain an understanding of Latin America and its diverse peoples, and to place Latin America in a comparative perspective.

Major Requirements

Proficiency in Spanish equivalent to that required for the completion of Span 2002.

4 credits in Latin American history (Hist 1601—Latin American History: A Basic Introduction or its equivalent).

1 credit in LAAS 3201—Bibliographical Tools and Journals in Latin American Area Studies.

Hist 3601—Great Books in Latin American History

1–4 credits in LAAS 4101—Senior Tutorial in Latin American Area Studies taken together with Hist 3601.

1 credit per semester, after enrolling in the major and when in residence, in LAAS 3100—Contemporary Latin America; no more than 4 credits can be applied to the LAAS major, and up to 4 credits can be applied to the 20-credit elective requirement.

20 additional credits selected from the courses listed below; these courses must come from at least three different academic disciplines. Students are encouraged to use elective credits to acquaint themselves with as many academic fields of Latin American studies as possible. Courses and directed studies not listed below may be approved by the LAAS coordinator, provided the subject matter is appropriate for the major. These courses may be applied to the 20-credit elective requirement. Students may have up to a two-course overlap with any other major. Additional overlap is possible, but must be approved by the LAAS coordinator.

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Course Descriptions

Anth 3601. Social Change and Development in Latin America. (IP; 4 cr; =[Soc 3601]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3601. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Division Structure and Course Descriptions

Anth 3602. Women in Latin America. (IP; 4 cr; =[Soc 3602];

prereq 1111 or Soc 1101 or #; fall, odd years)

Same as Soc 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women's movements, economic and political conditions, religion and women, etc.

Engl 3301. Multicultural Literature. (HDiv; 4 cr; prereq 1131,

two from 2201, 2202, 2211, 2212; offered when feasible; fall)

Examination of literatures by African American, American Indian, Asian American, Chicana/o, U.S. Latino/a, and other under-represented peoples.

Hist 1601. Latin American History: A Basic Introduction. (IP; 4 cr; spring)

Methods, themes, and problems in the study of Latin American history.

Hist 3601. Great Books in Latin American History. (IP; 4 cr; fall, every year)

A look at Latin American history through great books.

Hist 3608. The Cuban Revolution in Historical Perspective.

(Hist; 4 cr; spring, every year)

A survey of modern Cuban history with an emphasis on the Cuban Revolution. An introduction to a wide variety of perspectives.

LAAS 1311. Salvador da Bahia, Brazil: Exploring Its African Identity. (IP; 2 cr; =[Span 1311]; offered when feasible; spring)

Same as Span 1311. Focus on how Afro-Brazilian cultural identity is created and maintained in the face of globalization and immigration in Salvador da Bahia, a city in northeastern Brazil that embraces a vigorous and invigorating ethnic and cultural diversity. [Continuing Education course]

LAAS 1993. Directed Study. (1–5 or [max 10 cr]; prereq

approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

LAAS 2993. Directed Study. (1–5 or [max 10 cr]; prereq

approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

LAAS 3100. Contemporary Latin America. (1 cr [max 4 cr]; pre-

req LAAS major; to be repeated each sem a student is in residence;

only 4 cr may apply to LAAS major; fall, spring, every year)

Opportunity for LAAS majors to read about and discuss in historical and cultural contexts the more important contemporary developments in Latin America.

LAAS 3201. Bibliographical Tools and Journals in Latin

American Area Studies. (1 cr; prereq LAAS major; offered when feasible; fall, spring)

For the student new to the major. Introduction to the standard bibliographical tools and journals in Latin American area studies.

LAAS 3993. Directed Study. (1–5 or [max 10 cr]; prereq

approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

LAAS 4101. Senior Tutorial in Latin American Area Studies.

(1–4 cr [max 4 cr]; prereq 3201, sr LAAS major; offered when feasible; fall, spring)

Individual reading in subjects needing further development before completing the LAAS major. Subjects determined by LAAS faculty in consultation with the senior LAAS major.

LAAS 4993. Directed Study. (1–5 or [max 10 cr]; prereq

approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Pol 3504. Latin American Politics. (IP; 4 cr; prereq 1301 or #; spring)

A comparative examination of central issues in and components of Latin American political life, including economic development, regimes and alliances, guerrilla wars, the armed forces, human rights, and democratic consolidation. Countries may include Argentina, Brazil, Chile, Colombia, El Salvador, and Cuba.

Soc 3601. Social Change and Development in Latin America.

(IP; 4 cr; =[Anth 3601]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3601. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Soc 3602. Women in Latin America. (IP; 4 cr; =[Anth 3602];

prereq 1101 or Anth 1111 or #; fall, odd years)

Same as Anth 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women's movements, economic and political conditions, religion and women, etc.

Span 1001. Beginning Spanish I. (FL; 4 cr; fall, summer, every year)

Development of basic skills of Spanish (reading, speaking, writing, listening) and an introduction to the cultural contexts of Latin America and Spain.

Span 1002. Beginning Spanish II. (FL; 4 cr; prereq 1001 or

placement or #; fall, spring, summer, every year)

Continuation of the sequence beginning with 1001.

Span 2001. Intermediate Spanish I. (IP; 4 cr; prereq 1002 or

placement or #; fall, every year)

Review and building of the four basic skills in Spanish with emphasis on critical reading skills and writing for communication.

Span 2002. Intermediate Spanish II. (IP; 4 cr; prereq 2001 or

placement or #; spring, every year)

Continuation of the sequence beginning with 2001.

Span 2121. Associated Languages: Intensive Portuguese. (IP;

4 cr; prereq 2002 or Fren 2002 or #; offered when feasible)

Intensive, accelerated study of the basic skills of Brazilian Portuguese (reading, writing, listening, and speaking) with emphasis on oral competency.

Span 3001. Spanish Composition and Conversation I. (IP; 4 cr;

prereq 2002 or #; fall, every year)

Further review of the four skills in Spanish, with emphasis on: 1) development of greater competence and confidence in conversational Spanish; 2) greater precision

and sophistication in written communication; and 3) analytical proficiency in reading selections from diverse literary and cultural contexts.

Span 3002. Spanish Composition and Conversation II. (IP; 4 cr; prereq 3001; spring, every year)
Continuation of the sequence beginning with 3001.

Span 3101. Introduction to Hispanic Literature. (Hum; 4 cr; prereq 3001; prereq or coreq 3002 for majors; spring, every year)

Study of a variety of literary genres representing the literature of Spain and Latin America; rudiments of literary analysis and interpretation. Students should demonstrate the ability to read and comprehend the literary works studied, analyze works critically while developing a sensitivity toward certain cultural aspects and literary nuances expressed therein; participate in and comprehend sustained class discussion with respect to certain topics or themes; write with accuracy in Spanish and show some degree of analytical proficiency at the short paper level.

Span 3211. Literature and Culture of Latin America. (Hum; 4 cr; prereq 3002, 3101; fall)

Study of important exemplary works of Latin American literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

Span 3212. Literature and Culture of Spain. (Hum; 4 cr; prereq 3002, 3101; fall)

Study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

Span 3601. Seminar: Reality Born on Paper in Colonial Latin America. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Analysis of the multiple roles of writing during the conquest, the colonial period, and the era of independence and nation-building, as well as its vital importance in the shaping of Latin American "identity" and in the perception of the people and geography of the region.

Span 3602. Seminar: Contemporary. (Re-)Visions of Colonial Latin America. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the re-reading and re-writing of the Conquest and Colonial periods in Latin America, focusing on how these periods are approached, or fictionally reversed, by contemporary authors. Readings include narrative, poetry, and theater written during the 20th century, but based on or inspired by colonial texts.

Span 3621. Seminar: Confessions and Letters in Latin American Fiction. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; spring)

Study of confessions and letters in Latin American fiction. Fiction is seen as a combination of texts within other texts. The combination becomes part of the fictional game which imitates and enhances reality.

Span 3622. Seminar: Exile and Emigration in Latin American Fiction. (IP; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of contemporary Latin American literary texts where characters face forms of exile, abandonment, and displacement as a result of emigration to Europe and the United States.

Span 3623. Seminar: Ecology and Nature in Latin American Literature. (Env; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of Latin American texts where authors create characters that read or misread Nature and its preservation or extinction. How globalization is making this issue more relevant in the Latin American context.

Span 3651. Seminar: Miguel de Cervantes Saavedra's *El ingenioso hidalgo Don Quijote de la Mancha*. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of Miguel de Cervantes Saavedra's novel *El ingenioso hidalgo Don Quijote de la Mancha* in light of its sociohistorical context.

Span 3652. Seminar: Literary Minorities in Early Modern Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the representative literary works written by or about Spanish Jewish and Muslim minorities from the middle ages to the 17th century in light of their respective sociohistorical contexts.

Span 3653. Seminar: Maria de Zayas: Literary Violence in Golden Age Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the major works of 17th-century writer María de Zayas y Sotomayor, *The Enchantments of Love* (1637) and *The Disenchantments of Love* (1647), in light of their sociohistorical contexts and the political issues surrounding the formation of literary canons.

Span 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI–XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the sociohistorical context in which these works were produced.

Span 3671. Seminar: Origins of the Spanish Character. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Analysis of the Medieval and Golden Age roots of many of the beliefs and attitudes of contemporary Spain. Themes common to Spain, explored in both traditional and modern contexts, may include honor, patriotism, religion, idealism, individuality, satire, love, pride, etc.

Span 3672. Seminar: Reform in Spain: The Saint and the Journalist. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Analyzing, comparing, and contrasting the lives and writings of St. Teresa of Avila (XVI Century) and Mariano José de Larra (XIX Century) as they worked toward a better Spain. Difficulties of religious and cultural reform as well as differences in traditional and enlightenment values are explored.

Span 3681. Seminar: Romanticism and Revolution in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of representative texts (prose and poetry) from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

Span 3682. Seminar: Realism and Reform in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of representative texts (novels, stories, and essays) from the second half of the 19th century in Spain, with

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emphasis on the rise of realism as an exploration of the sociopolitical reality of the era and the need for reform. The focus is on general trends in Western cultures (eg., industrialization, positivism, secularization).

Span 3683. Seminar: Modernity and Identity in Spain, 1900–1930. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall) Study of representative texts (prose and poetry) from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

Span 4001. Research Symposium. (Hum; 4 cr; prereq #; A-F only; fall, every year)

A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation.

Spch 3411. Intercultural Communication Theory and Research. (HDiv; 4 cr; prereq 2101 or #; fall, every year) Study of intercultural communication from an interpersonal and group perspective.

Liberal Arts for the Human Services (LAHS)

This interdisciplinary major is in the Division of the Social Sciences.

Objectives—This program’s three main purposes are to provide a firm liberal arts basis for understanding individual human behavior in its social context; provide the liberal arts foundation for professional work in baccalaureate-level human services occupations such as counseling, casework, personnel work, criminal justice, and administration of human services in federal and state agencies, private businesses, or professional organizations; and prepare students for graduate work in the human services professions.

Major Requirements

Anth 1111—Introductory Cultural Anthropology
or Soc 1101—Introductory Sociology
Psy 1051—Introduction to Psychology
Stat 1601—Introduction to Statistics
or Stat 2601—Statistical Methods

The minimum additional requirements for a major in liberal arts for the human services are:

- 40 credits to be selected from the courses listed below, with a minimum of 16 credits each in anthropology/sociology and upper division psychology
- at least 4 credits of Psy 4896—Field Experiences in Psychology or IS 3996—Interdisciplinary Internship

- IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

Students develop a coherent program of culture in consultation with their major advisers generally no later than the spring semester of their sophomore year. Advisers normally are faculty with a background or specialties related to the human services area.

Students should discuss the arrangement of their field experience with their LAHS advisers no later than the fall semester of their junior year. Information concerning specific field placements can be obtained from the director of the Career Center or an LAHS faculty adviser.

Because LAHS students pursue varied careers, they are advised to include in their programs courses appropriate to their career plans. For instance, students intending to seek careers involving public administration or policy formulation should take courses such as

Econ 1111—Principles of Microeconomics

Econ 1112—Principles of Macroeconomics

Mgmt/Psy 3513—Negotiation

Pol 3201—Legislative Process

Pol 3262—Minorities and Public Policy

Psy 3521—Health Psychology

Psy 3701—Organizational Behavior

Soc 2101—Prejudice, Discrimination, and Systems of Oppression

Soc 3121—Sociology of Gender

Spch 3421—Organizational Communication Theory and Research

For careers in counseling or in other direct helping professions working with adults, students should take courses such as:

Psy 3051—The Psychology of Women and Gender

Psy 3101—Learning Theory and Behavior Modification

Psy 3302—Personality

Psy 3313—Psychopathology

Psy 3403—Developmental Psychology III: Adulthood, Aging, and Death

Psy 3501—Social Psychology

Psy 3521—Health Psychology

Psy 4101—Helping Relationships

Soc 3121—Sociology of Gender

Soc 3141—Sociology of Deviance

Spch 3421—Organizational Communication Theory and Research

If the career involves work with children, students should take:

Psy 3401—Developmental Psychology I: Child Psychology

Psy 3402—Developmental Psychology II: Adolescence

Soc 3122—Sociology of Childhoods

If with the chemically dependent:

Psy 1081—Drugs and Human Behavior

A directed study or empirical research course on chemical dependency

Students intending to seek careers related to criminal justice should take courses such as:

Pol 3231—Constitutional Law: Civil Liberties and Civil Rights

Pol 3262—Minorities and Public Policy

Pol 4221—Judicial Politics

Phil 3131—Philosophy of Law

Psy 1081—Drugs and Human Behavior

Psy 3112—Cognition

Psy 3302—Personality

Psy 3313—Psychopathology

Psy 3402—Developmental Psychology II: Adolescence

Psy 3501—Social Psychology

Psy 3502—Psychology and Law

Soc 2101—Systems of Oppression

Soc 3121—Sociology of Gender

Soc 3141—Sociology of Deviance

In all instances, students should consult with their advisers when designing their programs.

Students should complete the professional ethics course (IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services) during the year before their internship (IS 3996—Interdisciplinary Internship) or field experience (Psy 4896—Field Experiences in Psychology). Students who plan to enroll in Psy 4101—Helping Relationships should complete the course before their internship or field experience.

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

The 40 credits required for the LAHS major are to be selected from the courses listed below. Courses and directed studies not listed below that a student and an LAHS adviser agree are appropriate for the student’s program of study may be approved toward completion of the major.

Course Descriptions

Anth 2101. Physical Anthropology. (Sci-L; 4 cr; A-F only; fall, every year)

Prehistoric human life and culture. Processes of human evolution. The fossil record linking anatomically modern humans with our earliest hominoid ancestors. Human and other primate evolution and genetics. Includes a 90-minute lab session to be scheduled.

Anth 2501. Medical Anthropology—An Overview. (SS; 4 cr; prereq 1111 or Soc 1101 or #; spring, even years)

Utilizes an ecological perspective to explore cultural understandings of health and illness in a variety of societies in North America and abroad. Examines the effects of cultural and physical adaptation, nutrition,

culture contact, and modernization on the health and well being of people.

Anth 3101. The Anthropology of Religion. (SS; 4 cr; prereq 1111 or Soc 1101 or #; 4 addtl cr in Anth or Soc recommended; fall, every year)

Comparative study of religion, magic, witchcraft, etc., in various parts of world. Theories and concepts developed by anthropologists in dealing with religious phenomena in a cross-cultural perspective.

Anth 3202. Culture and Biology. (Env; 4 cr; prereq 1111 or Soc 1101 or #; spring, every year)

Examines the interrelationships between biology and culture, using various cultures in the ethnographic record to assess the applicability of a range of biologically inspired hypotheses for aspects of human behavior and intelligence. The nature-nurture debate.

Anth 3301. India and South Asia. (IP; 4 cr; prereq 1111 or Soc 1101 or #; spring, every year)

Examination of the cultures and societies of several South Indian countries with a primary focus on India. Topics include a brief history, economic and social issues and conditions, marriage and kinship practices, religions, regional differences, regional and international conflicts, and cultural and social change.

Anth 3402. American Indian Ethnography. (HDiv; 4 cr; prereq 1111 or Soc 1101; fall, even years)

An analysis of ethnographic and ethnohistoric materials focusing on specific American Indian cultures.

Anth 3451. Contemporary American Indians. (HDiv; 4 cr; =[Soc 3451]; prereq 1111 or Soc 1101 or #; fall, odd years)

Same as Soc 3451. The cultures of contemporary Indian tribes in the United States. Government policies, gaming, urban populations, education, self-determination, and identity.

Anth 3452. American Indian Women. (HDiv; 4 cr; =[Soc 3452]; prereq 1111 or Soc 1101 or #; fall, every year)

Same as Soc 3452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Anth 3601. Social Change and Development in Latin America. (IP; 4 cr; =[Soc 3601]; prereq 1111 or Soc 1101 or #; spring, every year)

Same as Soc 3601. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Anth 3602. Women in Latin America. (IP; 4 cr; =[Soc 3602]; prereq 1111 or Soc 1101 or #; fall, odd years)

Same as Soc 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

Econ 1111. Principles of Microeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Study of scarce resource allocation in a market economy. Supply and demand, consumer theory, theory of the firm, market structure, pricing of factors of production, income distribution and the role of government.

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Econ 1112. Principles of Macroeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)
Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation, and unemployment; competing macroeconomic theories and stabilization policies.

Econ 3201. Microeconomic Theory. (SS; 4 cr; prereq 1111, Math 1101 or #; fall, every year)
Analytical approach to decision making by individual economic units in the output and input markets, under perfect and imperfect market conditions. Externalities and role of government.

Econ 3202. Macroeconomic Theory. (SS; 4 cr; prereq 1112, Math 1101 or #; spring, every year)
The theory of national income determination; inflation, unemployment, and economic growth in alternative models of the national economy.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; offered when feasible; fall, spring)
Analysis of the history of European women and gender systems as constructed during the Middle Ages (c. 500–1500).

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)
Examination of lives of women in Europe from about 1350 to 1750.

IS 4101. Intro to Professional Conduct, Legal Constraints, Ethics in Human Services. (E/CR; 2 cr; prereq jr, 10 or 3xxx or 4xxx human services courses or #; fall, spring, every year)
Concepts of professional ethics in human services professions; ethically relevant legal mandates and constraints on professional practice; practical problems in the application of ethical principles.

Mgmt 3151. Human Resources Management. (E/CR; 2 cr; prereq 2101 or #; spring, every year)
An introduction to the functional areas of human resource management through the use of case studies. Topics include legal issues, planning, recruitment, training, evaluation, compensation, and benefits.

Mgmt 3513. Negotiation. (SS; 4 cr; =[Psy 3513]; prereq 3221 or Psy 3501 or Psy/Mgmt 3701; spring, even years)
Same as Psy 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Mgmt 3701. Organizational Behavior. (SS; 4 cr; =[Psy 3701]; prereq jr or sr; fall, spring)
Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

Pol 3201. Legislative Process. (SS; 4 cr; prereq 1201 or #; Stat 1601 or Stat 2601 recommended; fall, every year)
The internal organization of Congress, with emphasis on how rules and organizational changes affect the policy process. Topics include the evolution of the modern Congress, the committee system, the role of party leadership, and competing theories of congressional

organization. In addition, comparisons/contrasts are drawn from other legislatures in democracies around the world.

Pol 3262. Minorities and Public Policy. (HDiv; 4 cr; prereq 1201 or #; fall, even years)
Analysis of the ways race, ethnicity, and other factors shape political engagement; their implications for public policy and the policy process.

Pol 3263. Political Psychology. (SS; 4 cr; prereq 1201; Psy 1051 or # recommended; fall, odd years)
Examines the utility of concepts from personality and social psychology for conducting political analysis and understanding political behavior. Explores the role of the individual, group processes, and the political context in political decision making by both leaders and nonleaders.

Pol 4221. Judicial Politics. (SS; 4 cr; prereq 1201 or #; Stat 1601 or Stat 2601 recommended; fall, odd years)
Role of judges, police, attorneys, and interest groups within the political system, with analysis focusing on each as political actors. Areas of discretion in the legal system. Extra-legal predictors of judicial decision making and certiorari voting.

Pol 4264. American Political Culture. (Hist; 4 cr; prereq 1201 or #; spring, odd years)
A survey of the ideas shaping the U.S. political system and Americans' political behavior. Examines the ways that U.S. political culture has shaped institutional development, policy outcomes, and the everyday political experiences within the political system.

Psy 1061. Introduction to the Development of the Child and Adolescent. (SS; 4 cr; prereq 1051 or #; spring, every year)
Theory, data, and research approaches in development from birth through adolescence. Prenatal and physical development as well as perceptual, cognitive, language, personality, and social development. Multicultural/global perspective. Designed for students aiming for teacher certification, who receive priority in registration. Does not count for elective credit for the 16-credit psychology component of the LAHS major or for the psychology major or minor. Does count toward the 8-credit "other" category for the LAHS major. A more in-depth alternative to this course is Psy 3401 and Psy 3402. Students double majoring in education and psychology should consider the Psy 3401 and 3402 alternative to this course.

Psy 1071. Human Sexuality. (SS; 4 cr; fall, every year)
Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of identity, sex role, and gender orientation; varieties of sexual expression; pregnancy and child birth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

Psy 1081. Drugs and Human Behavior. (SS; 2 cr; spring, every year)
Survey of psychoactive drugs, their effects on mind and behavior, and prevention and treatment of drug abuse.

Psy 3051. The Psychology of Women and Gender. (HDiv; 4 cr; prereq 1051 or #; spring, every year)
Exploration of the interactive biological, psychological, and socio-cultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical

health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

Psy 3101. Learning Theory and Behavior Modification. (SS; 4 cr; prereq 2001 or #; fall, every year)

Major theories of learning and their importance for understanding human and nonhuman behavior. Classical and operant conditioning, generalization, discrimination, stimulus control, animal cognition. Behavior modification theories and techniques and their application to clinical populations. Lab projects demonstrate learning and behavior modification theories, concepts, and techniques and illustrate research methods and theory testing. Includes lab.

Psy 3112. Cognition. (SS; 4 cr; prereq 2001 or #; spring, every year)

Empirical study of memory, language behaviors, representation of knowledge, judgment, decision making, problem solving, and creative thinking. Includes lab.

Psy 3211. Biological Psychology. (Sci-L; 5 cr; prereq [1051, 2001] or Biol 1101 or Biol 1111; fall, every year)

Brain organization and function; an emphasis on an understanding of the neural processes that underlie human and nonhuman behavior. Incorporates information from psychology, neuroscience, endocrinology, physiology, chemistry, neurology, and zoology to investigate the physiological basis of behavior. Topics include sensory processes, drugs and addiction, biological rhythms, sexual differentiation, reproduction, methods in neuroscience, neuropsychological disorders, and clinical assessment. Lab projects focus on neuroanatomical organization and function of the brain. (4 hrs lect, 1 hr lab)

Psy 3221. Behavioral Biology of Women. (Sci; 2 cr; prereq 3211 or Biol 2111 or #; offered when feasible; fall, spring)

Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, and dominance.

Psy 3302. Personality. (SS; 4 cr; prereq 1051, Stat 1601 or Stat 2601 or #; spring, every year)

Nature of personality constructs and theories. Conscious vs. nonconscious processes; emotion and motivation; nature and measurement of personal traits; their dimensional structure, stability, development, and heritability.

Psy 3313. Psychopathology. (SS; 4 cr; prereq 3302, Stat 1601 or Stat 2601; spring, every year)

Psychological disorders and their treatment, including anxiety, personality, affective, schizophrenic, and other recognized disorders of children and adults.

Psy 3401. Developmental Psychology I: Child Psychology. (SS; 4 cr; prereq 1051 or #; fall, every year)

Theory, data, and research in development from conception to adolescence. Prenatal and physical development as well as perceptual, cognitive, personality, and social development. Language acquisition and Piaget's theory of cognitive development.

Psy 3402. Developmental Psychology II: Adolescence. (SS; 2 cr; prereq 1051 or #; spring, every year)

Theory, data, and research in adolescent development with emphasis on physical, cognitive, and social development.

Psy 3403. Developmental Psychology III: Adulthood, Aging, and Death. (E/CR; 4 cr; prereq 1051 or #; fall, every year)

An overview of current concepts, theories, and methods in the study of adult development and aging. Provides students with an applied-learning experience through a service learning component. Theoretical and methodological content is integrated with service learning, involving approximately one hour per week of work outside the classroom. Focus is on individual biological and social-psychological development, but also incorporates historical, sociological, and anthropological perspectives where appropriate.

Psy 3501. Social Psychology. (SS; 4 cr; prereq 1051 or Soc 1101 or #; fall, every year)

Theories and research in the study of interpersonal behavior. Topics include aggression, prejudice, altruism, persuasion, group dynamics, and social influence.

Psy 3502. Psychology and Law. (SS; 2 cr; prereq 3501; spring, odd years)

A psychological perspective to the law and to the legal system. Topics include jury decision making, forensic psychology, and trial processes.

Psy 3513. Negotiation. (SS; 4 cr; =[Mgmt 3513]; prereq 3501 or Mgmt 3221 or Psy/Mgmt 3701; spring, even years)

Same as Mgmt 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Psy 3521. Health Psychology. (SS; 4 cr; prereq 1051; spring, every year)

Health implications of interactions among behavioral, environmental, and physiological states. Physiological bases of behavior and health; stress and coping; behavioral antecedents of disease; psychoneuro-immunology; disease prevention and health promotion.

Psy 3701. Organizational Behavior. (SS; 4 cr; =[Mgmt 3701]; prereq jr or sr; fall, spring)

Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

Psy 4101. Helping Relationships. (SS; 4 cr; prereq 3302; fall, spring, every year)

Approaches to counseling and psychotherapy. Theories of helping relationships. Acquisition of helping skills, including attending behavior, reflection of feeling, paraphrasing, confrontation, and summarization. Major humanistic, cognitive, and behavioral approaches. Didactic instruction, observation of counseling and psychotherapeutic techniques, and practical experiences.

Psy 4910. Advanced Seminar in Cognitive Psychology. (SS; 4 cr; =[Psy 4710]; prereq 2001, 3111 or 3112, sr status, #; A-F only; fall, every year)

Advanced seminar on selected topics in the area of cognitive psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

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Psy 4920. Advanced Seminar in Biological or Comparative

Psychology. (SS; 4 cr; =[Psy 4720]; prereq 2001, 3201 or 3211, sr status, #; A-F only; spring, every year)

Advanced seminar on selected topics in the area of Biological and Comparative Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4930. Advanced Seminar in Personality or Clinical

Psychology. (SS; 4 cr; =[Psy 4730]; prereq 2001, 3302 or 3313, sr status, #; A-F only; spring, every year)

Advanced seminar on selected topics in the area of Personality or Clinical Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4940. Advanced Seminar in Developmental Psychology.

(SS; 4 cr; =[Psy 4740]; prereq 2001, 3401 or 3402 or 3403, sr status, #; A-F only; fall, every year)

Advanced seminar on selected topics in the area of Developmental Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4950. Advanced Seminar in Social Psychology. (SS; 4 cr;

=[Psy 4750]; prereq 2001, 3501, sr status, #; A-F only; spring, every year)

Advanced seminar on selected topics in the area of Social Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4960. Advanced Seminar in Health Psychology. (SS; 4 cr;

=[Psy 4760]; prereq 2001, 3302 or 3313, sr status, #; A-F only; fall, every year)

Advanced seminar on selected topics in the area of Health Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Soc 2101. Systems of Oppression. (HDiv; 4 cr; prereq 1101 or

Anth 1111 or #; fall, every year)

Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism, ageism, and ableism.

Soc 3111. Sociology of Modernization. (IP; 4 cr; prereq 1101 or

Anth 1111 or #; spring, every year)

Process of modernization in non-Western societies. Social, economic, and political impact of modernization from different theoretical perspectives. Assessment of those theoretical perspectives as a means to understand dynamics of change in Third World countries.

Soc 3121. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth

1111 or #; fall, every year)

An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of

women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Theoretical overview and an examination of how gender affects everyday experiences.

Soc 3122. Sociology of Childhoods. (HDiv; 4 cr; prereq 1101 or

#; spring, odd years)

Introduction to the sociological study of childhoods. Examination of the interaction between societies and their youngest members—how societies shape children's lives through social institutions such as families, education, and the state. A close look at children's access to privileges and resources as determined by children's experiences of race, gender, class, nationality, and sexual orientation.

Soc 3131. World Population. (Envt; 4 cr; prereq 1101 or #; fall,

every year)

Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

Soc 3141. Sociology of Deviance. (E/OR; 4 cr; prereq 4 cr in

Soc or #; fall, every year)

An introduction to the sociological study of deviance. Explore the social reality of deviance within contemporary society and examine the social construction of deviant categories. Specific focus on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigation of the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, an examination of the socio-cultural definitions of morality and behavior.

Soc 3251. African Americans. (HDiv; 4 cr; prereq 1101 or Anth

1111; offered when feasible; fall, spring)

Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context.

Soc 3252. Women in Muslim Society. (IP; 4 cr; prereq 1101 or

Anth 1111; spring)

The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

Soc 3451. Contemporary American Indians. (HDiv; 4 cr; =[Anth

3451]; prereq 1101 or Anth 1111 or #; fall, odd years)

Same as Anth 3451. The cultures of contemporary Indian tribes in the United States. Government policies, gaming, urban populations, education, self-determination, and identity.

Soc 3452. American Indian Women. (HDiv; 4 cr; =[Anth 3452];

prereq 1101 or Anth 1111 or #; fall, every year)

Same as Anth 3452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Soc 3601. Social Change and Development in Latin America.

(IP; 4 cr; =[Anth 3601]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3601. Study of types of social change taking place in Latin American countries, including

economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Soc 3602. Women in Latin America. (IP; 4 cr; =[Anth 3602]; prereq 1101 or Anth 1111 or #; fall, odd years)

Same as Anth 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women's movements, economic and political conditions, religion and women, etc.

Spch 3401. Human Communication Theory. (SS; 4 cr; prereq 2101 or #; fall, every year)

Detailed study of the theoretical tradition of human communication. Focuses on social scientific and humanities theories used to explain social interaction. Provides general foundation on various traditions of inquiry as well as qualitative and quantitative methods.

Spch 3421. Organizational Communication Theory and Research. (SS; 4 cr; prereq 2101 or #; spring, every year)

Study of organizational communication, including small group perspectives.

WSS 1051. Fitness for Life. (2 cr; fall, spring, every year)

Factors associated with a positive lifestyle, assessment of each individual's current wellness status, and development of a personal lifetime program for improving one's quality of life.

Management (Mgmt)

This discipline is in the Division of the Social Sciences. It offers a multidisciplinary liberal arts-based program that allows students to enter the field of management as a professional or proceed to graduate studies.

Objectives—The management curriculum focuses on those areas of human knowledge that concern the operation and control of business and nonprofit organizations. In addition to developing competence in analytical and core business areas, students majoring in the field are expected to learn to critically examine business and other institutions from a liberal arts perspective. Specifically, management students:

1. understand and use a variety of techniques to manage financial, human, and material resources
2. are able to critically conceptualize business problems and to develop appropriate strategies for problem solving
3. understand and use a variety of quantitative analysis techniques appropriate for business
4. develop collaborative skills
5. be competent in written and oral communication
6. develop competence in computer skills

7. are prepared for professional careers in business or public service, or for graduate studies

8. are able to see relationships between management and other liberal arts disciplines.

Requirements for a major include analytical, core, and requirements from a chosen area of emphasis.

Major Requirements

Analytical Skills

Stat 1601—Introduction to Statistics

or Stat 2601—Statistical Methods

Core Requirements

Econ 1111—Principles of Microeconomics

Econ 1112—Principles of Macroeconomics

Mgmt 2101–2102—Principles of Accounting I-II

Econ 4501—Senior Research Seminar in Economics and Management

8 credits in Mgmt courses at 3xxx or above, exclusive of those used to satisfy emphasis requirements

8 additional credits in Mgmt or Econ courses at 3xxx or above, exclusive of those used to satisfy emphasis requirements

No more than 4 credits from each of the following can be applied to the major:

Econ 4501—Senior Research Seminar in Economics and Management

Mgmt x993—Directed Study

Emphasis Requirements

Students must complete the requirements from one of the following areas of emphasis:

I. Financial Management

Math 1101—Calculus I

Spch 1052—Introduction to Public Speaking

or Spch 4151—Argumentation: Theory and Practice

Mgmt 3101—Financial Management

At least 8 credits from Mgmt 3133, 4101, 46xx, Econ 3113, 4131

II. Global Business

Mgmt 3601—Transnational Enterprise

8 credits of Fren, Ger, Span or other approved language at 2xxx or above

4 credits of coursework other than Econ or Mgmt at 3xxx and above that carries the IP general education designation

At least 8 credits from Econ 3131, 3141, 3142, 3351 (same as Mgmt 3351), 4121, 4131, Mgmt 45xx

III. Organizations and Human Resources

Spch 1052—Introduction to Public Speaking

or Spch 4151—Argumentation: Theory and Practice

Phil 2112—Professional Ethics

Mgmt 3151—Human Resource Management I

10 credits taken from 3161, 3162, 3221, 3513, 3701,

Division Structure and Course Descriptions

3702, Econ 4101, Econ 4102, Psy 3302, Psy 3501, Soc 2101, Soc 3121, Spch 3421, with at least 6 of these credits from Econ or Mgmt

Grades of D or D+ in Mgmt 2101-2102, Econ 1111-1112, Math 1101, or Stat 1601 may not be used to meet Major Requirements. Up to 4 credits of other management coursework with a grade of D or D+ may be used to meet Major Requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Note: Students should complete Mgmt 2101-2102, Econ 1111-1112, Math 1101, and Stat 1601 or their equivalents during their first two years. Students intending on going to graduate school are strongly recommended to take Math 1101-1102. Students are also recommended to take Phil 2112—Professional Ethics, if not required to do so. Prospective majors should see a management faculty member before registering for classes. Consultation with an adviser is essential to program planning.

Minor Requirements

Mgmt 2101-2102—Principles of Accounting I-II

Econ 1111—Principles of Microeconomics

Econ 1112—Principles of Macroeconomics

10 additional credits in Mgmt courses at 3xxx or above

No more than 4 credits from each of the following can be applied to the minor:

Econ 4501—Senior Research Seminar in Economics and Management

Mgmt x993—Directed Study

Grades of D or D+ in Mgmt 2101-2102 or Econ 1111-1112 may not be used to meet minor requirements. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Course Descriptions

Mgmt 1301. Legal Environment of Business. (SS; 4 cr; prereq high school civics; for nonmajors; offered when feasible; spring) An introduction to the regulatory environment of business, including constitutional authority, administrative law, business crimes and torts, competition and sales in the marketplace, agency and employment law, business forms and capitalization. [Continuing Education course—internet delivered only]

Mgmt 1993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year) An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Mgmt 2101. Principles of Accounting I. (4 cr; fall, every year) An introductory course in accounting principles and practices. The students develop an understanding of both the conceptual and procedural framework of the accounting processes. Emphasis is placed on the preparation and communication of accounting information and the financial statements for a proprietorship.

Mgmt 2102. Principles of Accounting II. (4 cr; prereq 2101; spring, every year) A continuation of Principles of Accounting I. Students develop an understanding of the issues unique to partnerships, corporations, and organizational financing. Cash flow statements and performance analysis are also emphasized.

Mgmt 2993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year) An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Mgmt 3101. Financial Management. (SS; 4 cr; prereq 2102, Econ 1111, Econ 1112, Stat 1601; fall, every year) Fundamental theories of financial management, their applications, and their limitations in solving real business problems. Emphasis on financial analysis, valuation of future cash flows, capital budgeting, risk and return, cost of capital.

Mgmt 3133. Managerial Accounting. (4 cr; prereq 2102; offered when feasible; fall, spring) Managerial accounting is designed to help managers assess needed information to carry out three essential functions in an organization: planning operations, controlling activities, and making decisions. The emphasis of this course is placed on cost behaviors, various product costing methods, cost-volume-profit relationships, budgeting and control through standard costs, and other quantitative techniques used by management.

Mgmt 3141. Business Law I. (SS; 2 cr; prereq 2101 or #; offered when feasible; fall, spring) Law as it relates to the commercial world, including the legal environment, federal regulation, contracts, agency, sales.

Mgmt 3142. Business Law II. (SS; 2 cr; prereq 2101 or #; offered when feasible; fall, spring) Law as it relates to the commercial world, including the legal environment, commercial paper, corporations, secured transactions, bankruptcy, anti-trust law, and selected employment statutes.

Mgmt 3151. Human Resources Management. (E/CR; 2 cr; prereq 2101 or #; spring, every year) An introduction to the functional areas of human resource management through the use of case studies. Topics include legal issues, planning, recruitment, training, evaluation, compensation, and benefits.

Mgmt 3161. Labor Management Relations I. (E/CR; 2 cr; prereq Econ 1111 or #; offered when feasible; fall, spring) Historical development of labor relations and the legal framework governing collective bargaining. Labor relations law reform. Case studies from labor relations law.

Mgmt 3162. Labor Management Relations II. (SS; 2 cr; prereq 3161 or #; offered when feasible; spring) Issues in labor-management negotiation, grievances, wages and economic security plans, public policies toward collective bargaining. Case studies from labor arbitration.

Mgmt 3201. Marketing Principles and Strategy. (SS; 4 cr; prereq 2102, Stat 1601 or #; offered when feasible; spring) Basic factors affecting policy and strategy issues in marketing. Economic, legal, behavioral, environmental, competitive, and technological factors as they affect product, pricing, promotion, and marketing-channel decisions.

Mgmt 3221. Management and Organization Theory. (SS; 4 cr; prereq 2101, Econ 1111 or #; offered when feasible; fall, spring) Theory, research, and practice of management. Planning, organizing, leading, controlling. Emphasizes goals, policies, procedures. Factors and human relationships necessary to achieve organizational success. Organizational structure/culture. Changing environment in which businesses operate.

Mgmt 3351. Globalization: Examining India's Social and Economic Development. (IP; 4 cr; =[ECON 3351]; prereq Econ 1111 or Econ 1112 or #; spring)

Same as Econ 3351. Observe and study the impact of globalization on the Indian economy. Examine the growing class divide between the middle and upper middle class and the lower class. Study the problem of mass poverty in India and its various ramifications such as child labor, lack of education and basic health care, and the inherent gender bias. Examine sustainable grass roots efforts to combat some of these problems. [Continuing Education course]

Mgmt 3501. Applied Deterministic Modeling for Management Science. (M/SR; 2 cr; =[Math 3501]; prereq 2102, Math 1101 or Stat 1601 or Stat 2601 or #; spring, every year)

Same as Math 3501. Formulations of real-world problems as Linear Programming or Integer Linear Programming models; graphical solutions of some LP-models. Linear Programming: the Simplex method, intuitive ideas behind the Simplex method. Using software to solve LP problems; interpreting optimal solutions; sensitivity analysis; duality. Network diagram representation; critical path method (CPM-PERT); transportation problem.

Mgmt 3502. Applied Probabilistic Modeling for Management Science. (M/SR; 2 cr; =[Math 3502]; prereq 2102, Math 1101 or Stat 1601 or Stat 2601 or #; spring, every year)

Same as Math 3502. Short review of probability and statistics; mean and variance of a data set; discrete and continuous random variables (especially the exponential distribution and the Poisson distribution). Decision and game theory. Decision trees, types of decision criteria. Queueing models, birth-and-death processes; Markovian or Poisson arrivals and exponential service times; M/M/k and M/M/8 queues; Statistical Quality Control; inventory control system.

Mgmt 3513. Negotiation. (SS; 4 cr; =[Psy 3513]; prereq 3221 or Psy 3501 or Psy/Mgmt 3701; spring, even years)

Same as Psy 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Mgmt 3601. Transnational Enterprise. (IP; 2 cr; prereq 2102, Econ 1111, Econ 1112 or #; fall, every year)

Development and transformation of business enterprise within the global economy. Includes the basic impact of structural, institutional, and organizational change upon the dynamics of the firm and industry in the contemporary hyper-competitive, technology-driven, fast-paced, global environment.

Mgmt 3701. Organizational Behavior. (SS; 4 cr; =[Psy 3701]; prereq jr or sr; fall, spring)

Same as Psy 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

Mgmt 3702. Personnel Psychology. (SS; 2 cr; =[Psy 3702]; prereq **Mgmt/Psy 3701; spring, odd years**)

Same as Psy 3702. Focus on a behavioral science perspective to understanding personnel issues within organizations. Topics include performance appraisal, training and development, selection, and job analysis.

Mgmt 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Mgmt 4101. Investment and Portfolio Analysis. (SS; 4 cr; prereq 2101, 2102, 3101; spring, every year)

The institutional environment of investment, techniques used to price financial products, and how to design a portfolio of many assets.

Mgmt 4201. The Economics of Corporate Strategy I. (SS; 2 cr; prereq 2101, Econ 1111, Econ 1112, Math 1101, Stat 1601 or #; offered when feasible; fall, spring)

Setting the horizontal boundaries (e.g., which lines of business) and vertical boundaries (whether to make or buy inputs and outputs) of the firm, considered as strategic decisions. The different types of competition associated with distinct market structures.

Mgmt 4202. The Economics of Corporate Strategy II. (SS; 2 cr; prereq 4201; offered when feasible; fall, spring)

Tools for analyzing business strategies: credible strategic commitments, pricing rivalries, entry and exit, Porter's five forces framework, and the relationship between value creation and strategic market positioning.

Mgmt 4501. Globalization and Business Strategy. (IP; 2 cr; prereq 3601 or #; offered when feasible; fall, spring)

Review of the impact of increasing globalization of the corporate and economic environment; application of strategic methods to new business conditions.

Mgmt 4502. Technological Change, Labor Market, and Skill Formation. (IP; 2 cr; prereq 3601 or #; offered when feasible; fall, spring)

The change of technology in relation to the formation of skills and transformation of regional labor markets throughout the world. The intimate relationship between “skilling” and “deskilling” of labor and the transformation of technology.

Mgmt 4601. Advanced Topics in Financial Economics. (SS; 2 cr; prereq 3101 or #; offered when feasible; fall, spring)

Continuation of Mgmt 3101. Topics include dividend policy, hybrid financing, derivatives, and mergers.

Mgmt 4602. Long-Term Financing. (SS; 2 cr; prereq 3101 or #; offered when feasible; fall)

Application of the fundamental financial theories acquired in Mgmt 3101 to long-term financing in corporations. The primary focus is on issuing securities to the public, financial leverage, capital structure policy, dividend policy, and leasing.

Division Structure and Course Descriptions

Mgmt 4603. Working Capital Management. (SS; 2 cr; prereq 3101 or #; offered when feasible; fall)
Application of the fundamental financial theories acquired in Mgmt 3101 to working capital management in corporations. The primary focus is on financial planning, cash management, credit management, and risk management.

Mgmt 4896. Internship. (1-4 or [max 4 cr]; prereq 2102, #; 2 cr may be applied to major or minor; S-N only; fall, spring, every year)
Supervised educational experience and field application relevant to student's major. Written analysis appropriate to the application is required.

Mgmt 4993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Mathematics (Math)

This discipline is in the Division of Science and Mathematics.

Objectives—The mission of the discipline is to advance knowledge of mathematics: by teaching mathematics and its processes, by research in mathematics and mathematical pedagogy, and by dissemination of this knowledge to students and the community we serve.

Historically, the study of mathematics has been central to a liberal arts education. The mathematics curriculum serves as an integral part of students' active pursuit of a liberal arts education. The mathematics program serves students who major or minor in mathematics, seek secondary mathematics teaching licensure, major or minor in programs that require a mathematical background, or wish to fulfill components of a general education.

The mathematics curriculum is designed to help students develop competence in mathematical techniques and methods; to sharpen students' mathematical intuition and abstract reasoning as well as their reasoning from numerical data; to encourage and stimulate the type of independent thinking required for research beyond the confines of the textbook; and to provide students with the basic knowledge and skills to make mathematical contributions to modern society. The program seeks to enable students to see and communicate how the development of mathematics has been part of the development of several civilizations and is intimately interwoven with the cultural and scientific development of these societies. The curriculum prepares students to enter graduate school, pursue careers in applied mathematics, or teach mathematics.

Major Requirements

Required Courses

Math 1101—Calculus I, M/SR (5 cr)
Math 1102—Calculus II, M/SR (5 cr)
Math 2101—Calculus III, M/SR (4 cr)
Math 2111—Linear Algebra, M/SR (4 cr)
Math 2202—Mathematical Perspectives, M/SR (4 cr)
Math 3221—Analysis, M/SR (4 cr)
Math 3231—Abstract Algebra I, M/SR (4 cr)
Math 4901—Senior Seminar, M/SR (1 cr)
Stat 2611—Mathematical Statistics, M/SR (4 cr)

Take 1 or more course(s) from the following:

Math 2401—Differential Equations, M/SR (4 cr)
Math 3401—Operations Research, M/SR (4 cr)
Math 3411—Discrete and Combinatorial Mathematics, M/SR (4 cr)
Math 4401—Numerical Methods with Applications in Mathematical Modeling, M/SR (4 cr)
Math 4452—Mathematical Modeling, M/SR (4 cr)

Take 5 or more credit(s) from the following:

Math 2xxx, 3xxx, 4xxx

Mathematical Applications Courses

Take 1 or more course(s) from the following:

Chem 1101—General Chemistry I, Sci-L (4 cr)
Chem 1102—General Chemistry II, Sci-L (4 cr)
Chem 3501—Physical Chemistry I, Sci (4 cr)
Econ 3201—Microeconomic Theory, SS (4 cr)
Econ 3202—Macroeconomic Theory, SS (4 cr)
Econ 3501—Introduction to Econometrics, M/SR (4 cr)
Econ 4111—Mathematical Economics I, M/SR (2 cr)
Econ 4112—Mathematical Economics II, M/SR (2 cr)
Geol 3401—Geophysics, Sci (4 cr)
Geol 3501—Hydrology, Sci (4 cr)
Mgmt 3101—Financial Management, SS (4 cr)
Mgmt 3201—Marketing Principles and Strategy, SS (4 cr)
Math 3501—Applied Deterministic Modeling for Management Science, M/SR (2 cr)
Math 3502—Applied Probabilistic Modeling for Management Science, M/SR (2 cr)
NSci 3201—Relativity and Cosmology, Sci (4 cr)
Phys 1101—General Physics I, Sci-L (5 cr)
Phys 1102—General Physics II, Sci-L (5 cr)
Phys 2101—Modern Physics, Sci-L (5 cr)
Phys 3101—Classical Mechanics, Sci (4 cr)
Phys 3201—Mathematical Methods in Physics, Sci (4 cr)
Phys 3301—Optics, Sci-L (4 cr)
Phys 4101—Electromagnetism, Sci (4 cr)
Phys 4201—Quantum Mechanics, Sci (4 cr)

- Stat 2601—Statistical Methods, M/SR (4 cr)
 CSci 1301—Problem Solving and Algorithm Development, M/SR (4 cr)
 CSci 1302—Foundations of Computer Science, M/SR (4 cr)
 CSci 2101—Data Structures, M/SR (5 cr)
 CSci 3401—Models of Computing Systems, M/SR (5 cr)
 CSci 3501—Algorithms and Computability, M/SR (5 cr)
 CSci 3601—Software Design and Development, M/SR (5 cr)
 Phil 2101—Introduction to Symbolic Logic, M/SR (4 cr)
 Psy 3111—Sensation and Perception, SS (4 cr)
 Psy 3112—Cognition, SS (4 cr)
 Stat 3601—Data Analysis, M/SR (4 cr)
 Stat 3611—Multivariate Statistical Analysis, M/SR (4 cr)
 Stat 4601—Biostatistics, M/SR (4 cr)

A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced. Courses may not be taken S-N unless offered S-N only. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the Major Requirements if offset by an equivalent number of credits of B- or above in courses at or above the 2xxx level. Exceptions to requirements may be granted on an individual basis, after consulting with the math faculty.

Majors should begin with Math 1011—Pre-Calculus or Math 1101—Calculus I. Students with questions about placement are encouraged to discuss them with members of the mathematics faculty.

Recommended electives for students planning to pursue graduate work in *pure mathematics*:

- Math 4201—Complex Analysis
 Math 4211—Real Analysis
 Math 4221—Topology
 Math 4231—Abstract Algebra II
 Math 4241—Number Theory
 Math 4252—Differential Geometry
 Math 4253—Combinatorics

Recommended electives for students planning to work or pursue graduate work in *applied mathematics* or related fields:

- Math 2401—Differential Equations
 Math 3401—Operations Research
 Math 3411—Discrete and Combinatorial Mathematics
 Math 4401—Numerical Methods with Applications in Mathematical Modeling
 Math 4452—Mathematical Modeling

Minor Requirements

Required Courses

- Math 1101—Calculus I, M/SR (5 cr)
 Math 1102—Calculus II, M/SR (5 cr)
 Math 2111—Linear Algebra, M/SR (4 cr)

Elective Courses

Take 12 or more credit(s) from the following:

- Math 2101—Calculus III, M/SR (4 cr)
 Math 2202—Mathematical Perspectives, M/SR (4 cr)
 Math 2211—History of Mathematics (4 cr)
 Math 2401—Differential Equations, M/SR (4 cr)
 Math 2501—Probability and Stochastic Processes, M/SR (4 cr)
 Math 3211—Geometry, M/SR (4 cr)
 Math 3221—Analysis, M/SR (4 cr)
 Math 3231—Abstract Algebra I, M/SR (4 cr)
 Math 3401—Operations Research, M/SR (4 cr)
 Math 3411—Discrete and Combinatorial Mathematics, M/SR (4 cr)
 Math 3501—Applied Deterministic Modeling for Management Science, M/SR (2 cr)
 Math 3502—Applied Probabilistic Modeling for Management Science, M/SR (2 cr)
 Math 4201—Complex Analysis, M/SR (2 cr)
 Math 4211—Real Analysis, M/SR (2 cr)
 Math 4221—Topology, M/SR (2 cr)
 Math 4231—Abstract Algebra II, M/SR (2 cr)
 Math 4241—Number Theory, M/SR (2 cr)
 Math 4252—Differential Geometry, M/SR (2 cr)
 Math 4253—Combinatorics, M/SR (2 cr)
 Math 4401—Numerical Methods with Applications in Mathematical Modeling, M/SR (4 cr)
 Math 4452—Mathematical Modeling, M/SR (4 cr)

One of the courses below can be chosen to fulfill 4 elective credits for the math minor

- Stat 2601—Statistical Methods, M/SR (4 cr)
 or Stat 2611—Mathematical Statistics, M/SR (4 cr)

Courses may not be taken S-N unless offered S-N only. Up to 5 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of B- or above in courses at or above the 2xxx level.

A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in mathematics 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Division Structure and Course Descriptions

Course Descriptions

Math 0901. Basic Algebra. (0 cr [max 4 cr]; 0 cr toward graduation, 4 cr toward financial aid; fall, every year)

Sets, absolute values, linear equations and inequalities, functions and graphs, arithmetic of complex numbers, quadratics, radicals, exponents and logarithms, and linear systems of equations.

Math 1001. Survey of Math. (M/SR; 4 cr; prereq 2 yrs high school math; spring, every year)

Introductory topics in mathematics, such as number system, geometry, algebra, discrete mathematics, statistics, logic, and the history of mathematics, including applications in today's world.

Math 1011. Pre-Calculus. (4 cr; prereq high school higher algebra, geometry; intended to prepare students for Math 1101; fall, spring, every year)

Polynomial, rational, exponential, logarithmic, and trigonometric functions; trigonometric identities and equations; polar coordinates and topics from analytic geometry; systems of equations, geometric, series; binomial theorem.

Math 1021. Survey of Calculus. (M/SR; 4 cr; prereq high school higher algebra, geometry or 1011; fall, every year)

Short course for students in social sciences, biological sciences, and other areas requiring a minimal amount of calculus. Topics include basic concepts of functions, derivatives and integrals, exponential and logarithmic functions, maxima and minima, partial derivatives; applications.

Math 1101. Calculus I. (M/SR; 5 cr; prereq high school higher algebra, geometry, trigonometry or 1011; fall, spring, every year)

Limits and continuity; the concepts, properties, and some techniques of differentiation, antidifferentiation, and definite integration and their connection by the Fundamental Theorem. Partial differentiation. Some applications. Students learn the basics of a computer algebra system.

Math 1102. Calculus II. (M/SR; 5 cr; prereq 1101; fall, spring, every year)

Techniques of integration. Further applications involving mathematical modeling and solution of simple differential equations. Taylor's Theorem. Limits of sequences. Use and theory of convergence of power series. Students use a computer algebra system.

Math 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. In particular, students are encouraged to take at least one credit of a directed study in problem solving in mathematics. Such courses, at different levels, are available each term.

Math 2101. Calculus III. (M/SR; 4 cr; prereq 1102 or #; fall, spring, every year)

Multivariable and vector calculus. Three-dimensional analytic geometry; partial differentiation; multiple integration; gradient, divergence, and curl; line and surface integrals; divergence theorem; Green and Stokes theorems; applications.

Math 2111. Linear Algebra. (M/SR; 4 cr; prereq 1101 or #; fall, spring, every year)

Matrix algebra, systems of linear equations, finite dimensional vector spaces, linear transformations,

determinants, inner-product spaces, characteristic values and polynomials, eigenspaces, minimal polynomials, diagonalization of matrices, related topics; applications.

Math 2202. Mathematical Perspectives. (M/SR; 4 cr; prereq 1101; spring, every year)

Introduction to the methodology and subject matter of modern mathematics. Logic, sets, functions, relations, cardinality, and induction. Introductory number theory. Roots of complex polynomials. Other selected topics.

Math 2211. History of Mathematics. (4 cr; prereq Math course above 1100 or #; fall, even years)

Historical development of various areas in mathematics and important figures in mathematics from ancient to modern times.

Math 2401. Differential Equations. (M/SR; 4 cr; prereq 1102 or #; fall, every year)

First-order and second-order differential equations with methods of solution and applications, systems of equations, series solutions, existence and uniqueness theorems, the qualitative theory of differential equations.

Math 2501. Probability and Stochastic Processes. (M/SR; 4 cr; =Stat 2501; prereq 1101 or #; fall, every year)

Same as Stat 2501. Probability theory; set theory, axiomatic foundations, conditional probability and independence, Bayes' rule, random variables. Transformations and expectations; expected values, moments, and moment generating functions. Common families of distributions; discrete and continuous distributions. Multiple random variables; joint and marginal distributions, conditional distributions and independence, covariance and correlation, multivariate distributions. Properties of random sample and central limit theorem. Markov chains, Poisson processes, birth and death processes, and queuing theory.

Math 2993. Directed Study. (1–5 or [max 25 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. In particular, students are encouraged to take at least one credit of a directed study in problem solving in mathematics. Such courses, at different levels, are available each term.

Math 3211. Geometry. (M/SR; 4 cr; prereq Math course above 1100; fall, odd years)

Synthetic approach to Euclidean and non-Euclidean geometries. Selected topics from affine, hyperbolic, spherical, projective geometries. Possible comparisons of analytic and synthetic approaches. May include other related topics or use of computer software for geometry.

Math 3221. Analysis. (M/SR; 4 cr; prereq 1102, 2202 or #; fall, every year)

Introduction to real and complex analysis. The main topics of calculus—convergence, continuity, differentiation, integration, and series—applied and extended in advanced settings with emphasis on precise statements and rigorous proofs. Concept of metric space. Other topics and applications.

Math 3231. Abstract Algebra I. (M/SR; 4 cr; prereq 2111, 2202 or #; spring, every year)

Systematic study of groups and rings, making use of linear algebra. Groups as codifying symmetry throughout mathematics and its applications. The Euclidean algorithm and its consequences, both for integers and polynomials. Other selected topics and applications.

Math 3401. Operations Research. (M/SR; 4 cr; prereq 1100 or higher or #; spring, every year)
Topics include, but not limited to, linear and integer linear programming formulations, sensitivity analysis and duality, network models and applications.

Math 3411. Discrete and Combinatorial Mathematics. (M/SR; 4 cr; prereq 1100 or higher or #; fall, every year)
Propositional logic; equivalence relations; recurrence equations; structures and properties of undirected and directed graphs; applications of the aforementioned topics.

Math 3501. Applied Deterministic Modeling for Management Science. (M/SR; 2 cr; =[Mgmt 3501]; prereq 1101 or Stat 1601 or Stat 2601 or Stat 2611, Mgmt 2102 or #; spring, every year)
Same as Mgmt 3501. Formulations of real-world problems as Linear Programming or Integer Linear Programming models; graphical solutions of some LP models. Linear Programming: the Simplex method, intuitive ideas behind the Simplex method. Using software to solve LP problems; interpreting optimal solutions; sensitivity analysis; duality. Network diagram representation; critical path method (CPM-PERT); transportation problem.

Math 3502. Applied Probabilistic Modeling for Management Science. (M/SR; 2 cr; =[Mgmt 3502]; prereq 1101 or Stat 1601 or Stat 2601 or Stat 2611, Mgmt 2102 or #; spring, every year)
Same as Mgmt 3502. Short review of probability and statistics; mean and variance of a data set; discrete and continuous random variables (especially the exponential distribution and the Poisson distribution). Decision and game theory. Decision trees, types of decision criteria. Queuing models, birth-and-death processes; Markovian or Poisson arrivals and exponential service times; M/M/k and M/M/8 queues; Statistical Quality Control; inventory control system.

Math 3993. Directed Study. (1–5 or [max 25 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. In particular, students are encouraged to take at least one credit of a directed study in problem solving in mathematics. Such courses, at different levels, are available each term.

Courses numbered 42xx can include a variety of topics in mathematics. Each year the mathematics discipline will decide which courses to offer, taking student preferences into account.

Math 4201. Complex Analysis. (M/SR; 2 cr; prereq 3221 or #; fall, spring)
Differentiable and analytic functions of a complex variable. Contour integral theorems. Laurent expansions. Other topics optional.

Math 4211. Real Analysis. (M/SR; 2 cr; prereq 3221 or #; fall, spring)
Differentiation of functions of several variables. The extension of integration to other forms of integrals. Introduction to measure theory. Other optional topics.

Math 4221. Topology. (M/SR; 2 cr; prereq 2202 or #; fall, spring)
Selected topics from point set topology and/or algebraic topology.

Math 4231. Abstract Algebra II. (M/SR; 2 cr; prereq 3231 or #; fall, spring)
Selected topics from the theory of finite groups, Galois theory of fields, and/or the theory of rings.

Math 4241. Number Theory. (M/SR; 2 cr; prereq 2202 or #; fall, spring)
Selected topics from modular congruences, theory of primes, classical Diophantine equations, and the connections with algebraic curves.

Math 4251. Problem Solving in Pure Math. (M/SR; 2 cr; prereq #; fall, spring)
Strategies for investigating problems. Fundamental tactics for solving problems, cross-over tactics. Specific ideas in problems from algebra, combinatorics, number theory, and calculus.

Math 4252. Differential Geometry. (M/SR; 2 cr; prereq #; fall, spring)
Geometry of curves and surfaces. Frames, curvature, torsion, orientation, differential forms, topological properties of surfaces. The notion of differentiable manifold. Selected applications.

Math 4253. Combinatorics. (M/SR; 2 cr; prereq #; fall, spring)
Selected topics from graph theory, the theory of ordered sets, and/or enumerative combinatorics.

Math 4401. Numerical Methods with Applications in Mathematical Modeling. (M/SR; 4 cr; prereq 2111, 2401 or #; offered when feasible; fall, spring)
Finite differences; interpolation; numerical integration; numerical solutions of differential, algebraic, and transcendental equations; continuous mathematical models.

Math 4451. Fundamentals of Numerical Analysis. (M/SR; 4 cr; prereq #; fall, spring)
Errors and floating point arithmetic. Solving systems of linear equations. Polynomial interpolation. Roots of nonlinear equations. Solving nonlinear systems of equations. Numerical integration. Ordinary differential equations.

Math 4452. Mathematical Modeling. (M/SR; 4 cr; prereq #; offered when feasible; fall, spring)
Mathematical modeling using discrete and continuous models. Mathematical topics include, but are not limited to, curve fitting, statistical testing, regression analysis, differential equations, and dynamical systems. Topics drawn from population growth, interacting populations, biology, genetics, traffic flow, or finance.

Math 4901. Senior Seminar. (M/SR; 1 cr; prereq sr; full year course begins fall sem; fall, every year)
This is a full-year course, required for all mathematics majors in their senior year. Students must attend year round and present one of the seminars.

Math 4993. Directed Study. (1–5 or [max 25 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum. In particular, students are encouraged to take at least one credit of a directed study in problem solving in mathematics. Such courses, at different levels, are available each term.

Music (Mus)

This discipline is in the Division of the Humanities. The music curriculum offers a wide range of courses for the music major. It also has strong appeal to the general student, especially in the activities of the instrumental and vocal ensembles.

Objectives—Students become familiar with the traditions of Western and non-Western music through theoretical analysis, research, performance, and historical survey. The curriculum fosters the development of the critical ability necessary to understand those traditions. Students experience the unique relationship between research and performance in music. Theoretical and practical courses that provide a sound academic background in music are available for those who intend to pursue graduate study, teach, or fulfill general education requirements.

Major Requirements

7 enrollments in Mus 0100—Concert Attendance

Core Studies I

Mus 1101—Music Theory I*

Mus 1102—Music Theory II*

Core Studies II

Mus 2101—Advanced Music Theory III*

Mus 2102—Advanced Music Theory IV*

*Concurrent enrollment in piano lessons until the piano proficiency test is passed.

Core Studies III

Mus 3101—Medieval, Renaissance, and Baroque Music

Mus 3102—Classical, Romantic, and 20th-Century Music

7 credits in Individual Performance Studies in the major area, of which a minimum of two semesters must be in the Mus 3200—Advanced Individual Performance Studies series

Mus 4901—Senior Project

6 additional credits in Mus courses at 3xxx or above
No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Minor Requirements

20 credits:

4 enrollments in Mus 0100—Concert Attendance

Core Studies I

Mus 1101—Music Theory I*

Mus 1102—Music Theory II*

*Concurrent enrollment in piano lessons until the piano proficiency test is passed.

and

Core Studies III

Mus 3101—Medieval, Renaissance, and Baroque Music

Mus 3102—Classical, Romantic, and 20th-Century Music

4 credits in Individual Performance Studies in the applied area

No grades below C- are allowed. Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in instrumental music K–12 or vocal music K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Mus 0100. Concert Attendance. (0 cr; prereq major; S-N only; fall, spring, every year)

Encourages concert attendance as an important aspect of learning about music—the literature, various media, performance practice, and related topics. Satisfactory completion is attendance at a minimum of 15 listed concert offerings each semester.

Mus 1041. Introduction to Music. (FA; 4 cr; fall, every year)

Survey emphasizing development of an intelligent understanding and appreciation of music. For non-music majors.

Mus 1042. Fundamentals of Music. (FA; 4 cr; spring, even years)

The rudiments of music including note and rhythmic reading, scales, chords, beginning chord progressions, and practical keyboard work in the piano lab.

Mus 1043. American Jazz Styles. (FA; 4 cr; offered when feasible)

Development and analysis of the New Orleans dixieland, ragtime, stride, boogie-woogie, Chicago dixieland, swing, bop, cool, funky, progressive, third-stream, free form, and fusion jazz styles. Introductory course to help non-music majors become familiar with and appreciate this art form.

Mus 1044. Class Piano. (ArtP; 1 cr; special fee required; fall, spring, every year)

Introduction to piano performance for students with no previous piano training. Students will learn basic keyboard skills including note reading, fingering, and counting. Study beginning piano technique and learn to perform elementary-level solos and ensembles.

Mus 1045. Class Guitar. (ArtP; 1 cr; special fee required; fall, spring, every year)

Introduction to guitar performance for students with no previous guitar experience. Students learn basic guitar skills, study beginning guitar technique, and learn to perform music. This class is not for students who have played guitar before.

Mus 1050. Accompanying. (ArtP; 1 cr [max 8 cr]; prereq #: S-N only; fall, spring, every year)

Students who accompany private lessons and recitalists may receive credit. Accompanying assignments are made through consultation with the piano faculty.

Mus 1070. Instrumental Chamber Ensemble. (ArtP; 1 cr [max 8 cr]; prereq #: fall, spring, every year)

Performance of instrumental chamber music. Groups are formed according to the interests of students and availability of materials.

Mus 1080. Jazz Combo. (ArtP; 1 cr [max 8 cr]; prereq #: fall, spring, every year)

Performance of instrumental jazz music with emphasis on improvisation.

Mus 1090. Vocal Chamber Ensemble. (ArtP; 1 cr [max 8 cr]; prereq #: fall, spring, every year)

Performance of vocal ensemble music especially written for smaller groups.

Mus 1101. Core Studies I: Music Theory I. (M/SR; 4 cr; prereq major or minor or #, concurrent enrollment in piano lessons until the piano proficiency test is passed; fall, every year)

First course in a series of four. Basic harmonic techniques, initial analysis of scores, and introduction to four-part writing. Must have adequate skills in grand staff music reading at the start of the course.

Mus 1102. Core Studies I: Music Theory II. (M/SR; 4 cr; prereq 1101, major or minor or #, concurrent enrollment in piano lessons until the piano proficiency test is passed; spring, every year)

Harmonic progression and modulation, seventh chords, secondary dominants and sevenths, analysis of scores with attention to two- and three-part forms.

Mus 1200-1223. Individual Performance Studies. (ArtP; 1 cr [max 8 cr] per sem for each; prereq #: special fee required; fall, spring, every year)

Private instruction in the following areas is open to all students. It is recommended that music majors fulfill their requirement of 7 credits in successive enrollments in order to maintain continuous emphasis in the major performance area. The 3200 series is intended for music students who have achieved an advanced performance level. A jury examination in the major performance area is required to progress to the advanced performance series. The examination provides an effective check on the music student's progress. All music majors and other students who anticipate applying for the jury exam should enroll under A-F grading only. Note: Applied music instructors are not expected to make up sessions for absenters from scheduled lessons.

Mus 1200. Piano

Mus 1201. Piano Accompanying

Mus 1202. Organ

Mus 1203. Harpsichord

Mus 1204. Voice

Mus 1205. Violin

Mus 1206. Viola

Mus 1207. Cello

Mus 1208. Double Bass

Mus 1209. Flute

Mus 1210. Oboe

Mus 1211. Clarinet

Mus 1212. Saxophone

Mus 1213. Bassoon

Mus 1214. Trumpet

Mus 1215. French Horn

Mus 1216. Trombone

Mus 1217. Baritone

Mus 1218. Tuba

Mus 1219. Percussion

Mus 1220. Recorder

Mus 1221. Guitar

Mus 1222. Electric Bass

Mus 1223. Composition

Mus 1300. UMM Symphonic Winds. (ArtP; 1 cr [max 8 cr]; fall, spring, every year)

Rehearsals and concerts cover standard and contemporary wind ensemble literature with emphasis on concert performance. Several concerts annually in addition to spring concert tour.

Mus 1310. University Choir. (ArtP; 1 cr [max 8 cr]; fall, spring, every year)

Preparation of choral works for at least one public concert each semester and other special events. Emphasis on basic choral singing techniques.

Mus 1320. Concert Choir. (ArtP; 1 cr [max 8 cr]; prereq #: fall, spring, every year)

Preparation of choral works from all major periods of music literature with emphasis on concert performance. Several public concerts and appearances scheduled each semester in addition to a spring concert tour.

Mus 1330. Jazz Ensemble. (ArtP; 1 cr [max 8 cr]; fall, spring, every year)

Rehearsals and concerts cover the literature for this medium.

Mus 1340. Orchestra. (ArtP; 1 cr [max 8 cr]; fall, spring, every year)

The study and preparation of standard orchestral works for performance at several public concerts and appearances each semester in addition to a concert tour. The study of basic orchestral procedure.

Mus 1401. English, Italian, German, and French Diction for Singers. (ArtP; 1 cr; A-F or Aud; spring, odd years)

The sounds and symbols of the International Phonetic Alphabet, rules for correct English, Italian, German, and French lyric diction. Transactions of German Lieder, French Melodie, Italian Arias, and English Songs into International Phonetic Alphabet. German, French, Italian, and English songs performed in class for critique.

Mus 2101. Core Studies II: Music Theory III. (Hum; 4 cr; prereq 1102, major or minor or #, concurrent enrollment in piano lessons until the piano proficiency test is passed; fall, every year)

Chromatic harmony of the Classical Period; borrowed chords, Neapolitan and augmented sixths; harmonic and formal analysis of scores including variation, sonata, and rondo forms.

Mus 2102. Core Studies II: Music Theory IV. (Hum; 4 cr; prereq 2101, major or minor or #, concurrent enrollment in piano lessons until the piano proficiency test is passed; spring, every year)

Extended chromatic harmony of the Romantic and later eras—ninth, eleventh, and thirteenth chords; altered dominants and chromatic mediants; analysis of scores including nonfunctional harmony; and twelve-tone techniques.

Mus 3051. Piano Pedagogy I. (ArtP; 2 cr; prereq 1200 or #; fall, even years)

This course is a study, demonstration, and discussion about the various elements of piano teaching methods, techniques, and materials for elementary and early intermediate levels. This includes analysis of various piano courses and piano literature, discussion of technical

Division Structure and Course Descriptions

regimes, ideas for private and group lessons, and planning for the practical business aspect of teaching. Recommended for piano majors. [Continuing Education course]

Mus 3052. Piano Pedagogy II. (ArtP; 2 cr; prereq 1200 or #; fall, odd years)

This course covers much intermediate literature from each of the four major periods of music with practical ideas to put into immediate use by current teachers. Piano literature to motivate and retain students as well as the study of performance practices as they relate to each musical style are emphasized. [Continuing Education course]

Mus 3061. Guitar Pedagogy. (ArtP; 2 cr; prereq 1221 or #; fall, spring, every year)

Discussions and readings on guitar pedagogy, private and group lessons, instructing young students, practice methods and business issues associated with self-employment in teaching music. Instruction of beginners in a one-on-one situation and classroom presentation of lessons. [Continuing Education course]

Mus 3065. Introduction to Creative Guitar Repertoire. (ArtP; 1 cr [max 2 cr]; prereq 1221 or #; offered when feasible; fall)

Exploration of guitar styles and genera. Rather than master each style, students write original pieces or arrangements based on each style. Professional musicians present guest lectures and give private lessons. Course culminates in a concert featuring student compositions. [Continuing Education course]

Mus 3071. Seminar in Composition. (ArtP; 4 cr [max 8 cr]; prereq 1101, major or minor, or #; offered when feasible; summer)

A practical opportunity for students at differing ability levels to study compositional techniques through pre-existing works and apply those techniques in a variety of compositional projects in different mediums. Discussion of instrument ranges; orchestration techniques; score study; listening to scores; study of forms, including fugues, sonata form, ternary, rondo, minuet, and scherzo; rhythm; melody; and harmonic rhythm. Students compose and perform an original composition. [Continuing Education course]

Mus 3101. Core Studies III: Medieval, Renaissance, and Baroque Music. (Hist; 4 cr; prereq 1102, major or minor or #; fall, every year)

Historical development of Western music and representative literature of the various periods and styles.

Mus 3102. Core Studies III: Classical, Romantic, and 20th-Century Music. (FA; 4 cr; prereq 1102, major or minor or #; spring, every year)

Historical development of Western music and representative literature of the various periods and styles.

Mus 3200-3223. Advanced Individual Performance Studies. (ArtP; 1 cr [max 8 cr] per sem for each; prereq #; fall, spring, every year)

Private instruction in the major performance area for music students at an advanced level of performance. For listing of performance areas, see Mus 1200 above (excluding piano accompanying). Note: Applied music instructors are not expected to make up sessions for absences from scheduled lessons.

Mus 3301. Instrumental Techniques—Woodwind. (1 cr; prereq major or minor or #; fall)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the woodwind instruments.

Mus 3302. Instrumental Techniques—Brass and Percussion.

(1 cr; prereq major or minor or #; spring)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the brass and percussion instruments.

Mus 3303. Instrumental Techniques—Strings. (1 cr; prereq major or minor or #; fall)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the string instruments.

Mus 3304. Vocal Techniques. (1 cr; prereq major or minor or #; spring, even years)

Practical study to develop elementary skills as well as a basic teaching knowledge and understanding of performance problems of the voice.

Mus 3311. Conducting Techniques. (2 cr; prereq major or minor or #; fall, every year)

Instrumental and choral conducting skills.

Mus 3321. Instrumental Conducting and Materials. (2 cr; prereq 3311, major or minor or #; spring, every year)

Specialization of instrumental conducting and a survey of ensemble materials for various levels of ability and maturity.

Mus 3331. Choral Conducting and Materials. (2 cr; prereq 3311, major or minor or #; spring, every year)

Specialization of choral conducting and a survey of ensemble materials for various levels of ability and maturity.

Mus 3351. Instrumental Arranging. (ArtP; 2 cr; prereq 1102 or #; A-F only; offered when feasible; spring)

Theoretical study of orchestral and band instruments and special problems of scoring and arranging for small and large instrumental ensembles.

Mus 3352. Choral Arranging. (ArtP; 2 cr; prereq 1102 or #; A-F only; offered when feasible; spring)

Practical study of arranging for vocal ensembles and for vocal ensembles with instruments; exercises dealing with special problems and limitations of different age and ability groups.

Mus 3400. Opera Workshop. (ArtP; 1 cr [max 4 cr]; prereq #; spring, every year)

Practical introduction to opera performance. Students become familiar with a number of operas and musical comedies and perform selections emphasizing ensemble work.

Mus 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Mus 4101. Form and Analysis. (4 cr; prereq 1102, major or minor or #; spring, odd years)

Analysis of musical forms, including harmonic and melodic structure of the phrase, the binary principle, the ternary principle, sonata allegro, rondo, and later alterations of the forms.

Mus 4102. Counterpoint. (FA; 4 cr; prereq 2102 or #; spring, even years)

Contrapuntal techniques of the 18th century with references to earlier 16th century species counterpoint.

Mus 4901. Senior Project. (1 cr; prereq major, #; S-N only; fall, spring, every year)
Culminating activity that allows a graduating student to demonstrate competence as a musician. Projects may take the form of a solo recital, lecture-recital, research paper, chamber music recital, or other major study. Project should be determined in the student's junior year and approved by the music faculty. Majors taking Mus 3200 through 3223 normally satisfy this requirement with a senior recital.

Natural Science (NSci)

This discipline is in the Division of Science and Mathematics.

Objectives—Courses in this group give students the opportunity to study scientific topics that reach across the boundaries of the traditional disciplines.

Course Descriptions

NSci 1051. The State of the Planet. (Envnt; 4 cr; offered when feasible; spring)

An investigation of the present physical state of the soil, water, and atmosphere of the earth and how these important systems are changing. Soil generation and erosion, desertification, the hydrologic cycle, global climate change, ozone depletion.

NSci 1061. Salmon in Endangered Ecosystems. (Envnt; 4 cr; includes an intensive 2.5 week field component; offered when feasible; summer)

The natural history of salmon and the rivers they inhabit. Examination of how practices such as timber harvest, grazing of domestic livestock, and construction of hydropower dams have impacted river ecosystems and have contributed to the historic decline of salmon populations in the Pacific Northwest. There is an intensive field component to this course (about 2.5 weeks) in addition to in-class preparation and introduction of relevant concepts and background material.

NSci 2061. Arctic Field Ecology and Geology. (Envnt; 4 cr; offered when feasible; summer)

Interdisciplinary study of the ecological systems and geologic processes of arctic and alpine environments, including discussion of the human ecology of the arctic and the response of biological and physical systems to global climate change. Taught in northern Sweden. [Continuing Education course]

NSci 2102. Field Experience in Natural History: The Italian Alps. (Sci; 4 cr; offered when feasible; summer)

Study of the geology, soils, vegetation, and glaciers of the Italian Alps. Understanding the geologic history, Paleozoic evolution and extinction, mountain building, climate change; the "iceman" and early human habitation of the region; influence of the natural setting on humans and environmental problems associated with human development.

NSci 3100. Scientific Biography and Autobiography.

(2 cr [max 4 cr]; prereq #; offered when feasible; fall, spring)
The life, work, and times of eminent scientists through biography and autobiography.

NSci 3201. Relativity and Cosmology. (Sci; 4 cr; prereq Math 1102, Phys 1102 or #; offered when feasible; fall, spring)
Special relativity: covariance, Lorentz transformation, Minkowski diagrams, the nature of spacetime. The Cosmological Principle. Hubble's Law. The geometry, kinematics and dynamics of Friedmann models. Horizons. The age of the universe. Steady-state theory and kinematic relativity.

Philosophy (Phil)

This discipline is in the Division of the Humanities. The philosophy program provides an environment in which students receive rich, well-rounded instruction in philosophy whose pursuit is essential to a liberal arts education.

Objectives—The philosophy program offers students the opportunity to study the works of significant figures in philosophy; investigate the fundamental problems and systems of thought that frame philosophical inquiry; develop the ability to think and write critically and effectively; and cultivate the logical, analytical, and conversational skills necessary for stimulating and fruitful philosophical inquiry.

Major Requirements

Required introductory courses:

- Phil 1101—Introduction to Philosophy
- Phil 2101—Introduction to Symbolic Logic
- Phil 2111—Introductory Ethics

Any two elective courses from:

- Phil 2121—Philosophy of Religion
- Phil 2112—Professional Ethics
- Phil 2113—International and Biomedical Ethics
- Phil 2141—Analytic Feminism
- Phil 2151—Philosophy of Mind
- Phil 3131—Philosophy of Law
- Phil 4000—History of Philosophy Seminar
- Phil 4002—Existentialism
- Phil 4100—Moral Issues and Theories
- Phil 4121—Philosophy of Language
- Phil 4130—Contemporary Issues in Philosophy
- Phil 4131—Personal Identity, Proper Names, and Essences

Three core courses from:

- Phil 3101—Metaphysics
- Phil 3121—Political Philosophy
- Phil 3141—The Theory of Knowledge
- Phil 3151—History of Ancient Philosophy
- Phil 3171—History of Modern Philosophy
- Phil 4111—Ethical Theory

Phil 4901—Senior Philosophical Defense

One additional 4xxx course, other than 4901, that may not be used to fulfill other requirements of the major

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No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced. Required courses may not be taken S-N unless offered S-N only.

Minor Requirements

Any two introductory courses:

- Phil 1101—Introduction to Philosophy
- Phil 2101—Introduction to Symbolic Logic
- Phil 2111—Introductory Ethics

Any two elective courses from:

- Phil 2121—Philosophy of Religion
- Phil 2112—Professional Ethics
- Phil 2113—International and Biomedical Ethics
- Phil 2141—Analytic Feminism
- Phil 2151—Philosophy of Mind
- Phil 3131—Philosophy of Law
- Phil 4000—History of Philosophy Seminar
- Phil 4002—Existentialism
- Phil 4100—Moral Issues and Theories
- Phil 4121—Philosophy of Language
- Phil 4130—Contemporary Issues in Philosophy
- Phil 4131—Personal Identity, Proper Names, and Essences

Two core courses from:

- Phil 3101—Metaphysics
- Phil 3121—Political Philosophy
- Phil 3141—The Theory of Knowledge
- Phil 3151—History of Ancient Philosophy
- Phil 3171—History of Modern Philosophy
- Phil 4111—Ethical Theory

No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced. Required courses may not be taken S-N unless offered S-N only.

Course Descriptions

Phil 1101. Introduction to Philosophy. (Hum; 4 cr; fall, spring)
An introduction to fundamental philosophical problems in areas such as metaphysics (what exists?), epistemology (what can we know? and how can we know it?), and ethics (what actions are moral and immoral? and what is the good life?), with an emphasis on developing the reading, writing, and analytical skills required for philosophical investigation.

Phil 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Phil 2101. Introduction to Symbolic Logic. (M/SR; 4 cr; fall, every year)
An introduction to formal or deductive logic, including basic concepts of logical argumentation; Aristotelian

logic; and symbolic translations, truth tables, and theory of deduction. Samples from political speeches, philosophical essays as well as original LSAT questions are analyzed.

Phil 2111. Introductory Ethics. (Hum; 4 cr; spring, every year)
An introduction to philosophical accounts of what makes right acts right and wrong acts wrong, issues involving the concept of goodness, and arguments or debates about moral responsibility.

Phil 2112. Professional Ethics. (E/CR; 4 cr; fall, every year)
A critical examination of moral issues that arise in a person's professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.

Phil 2113. International and Biomedical Ethics. (Hum; 4 cr; offered when feasible; spring)
A general survey of topics in international and biomedical ethics. Topics may include: nuclear deterrence, humanitarian intervention, just war theory, famine relief, global justice, abortion, euthanasia, doctor-patient relationships, clinical trials, animal experimentation, and genetic engineering.

Phil 2121. Philosophy of Religion. (Hum; 4 cr; offered when feasible; spring)
A selection of main philosophical issues concerning religion such as the notion of a divinity, the attempts to prove or refute the existence of a divine being, the relationship between faith and reason, the link between religion and morality, the knowledge of a divinity.

Phil 2141. Analytic Feminism. (Hum; 4 cr; offered when feasible; spring)
Applies an analytical approach to issues discussed in feminist writings. A mixture of lecture and discussion. Requirements include essay exams, papers, attendance, service-learning projects with related reflective journals, and class participation.

Phil 2151. Philosophy of Mind. (Hum; 4 cr; offered when feasible)
An introduction to several problems in the philosophy of mind, such as the mind/body problem, consciousness, and psychological explanation.

Phil 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Phil 3101. Metaphysics. (Hum; 4 cr; prereq 1101 or 2101 or 2111 or #; spring, even years)
Explores fundamental metaphysical issues such as the nature of reality, the notion of personal identity, the relationship between language, thought, minds, and the world. Philosophical works of both classic and contemporary philosophers such as Plato, Aristotle, Quine, Putnam, and Kripke are discussed.

Phil 3121. Political Philosophy. (SS; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, even years)
Explores fundamental issues in political philosophy (e.g., political authority; distributive justice; nature, origin, and justification of the state; natural and civil rights) by, among other things, an examination of the works of philosophers such as Plato, Hobbes, Mill, and Rawls.

Phil 3131. Philosophy of Law. (SS; 4 cr; spring, even years)

Critical examination of theoretical and practical normative issues in the philosophy of law, especially questions regarding the justification of punishment.

Phil 3141. The Theory of Knowledge. (Hum; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, even years)

Explores historical and contemporary views on the limits, justification, and nature of human knowledge. Topics include experiential versus a priori knowledge, the nature of belief, skepticism, and different theories of justification.

Phil 3151. History of Ancient Philosophy. (Hist; 4 cr; prereq 1101 or 2101 or 2111 or #; fall, even years)

Explores the views of philosophers such as Plato, Aristotle, Epicurus, and the Stoics. Possible topics include ancient views on the nature and possibility of knowledge, the relationship of the soul to the body, and what the good life is for a human being.

Phil 3171. History of Modern Philosophy. (Hist; 4 cr; prereq 1101 or 2101 or 2111 or #; spring, even years)

Explores views of philosophers such as Descartes, Leibniz, Berkeley, Hume, and Kant. Possible topics include the relationship of the mind to the body, and whether and how it is possible to have knowledge of the external world.

Phil 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Phil 4000. History of Philosophy Seminar. (Hist; 4 cr [max 8 cr]; prereq 1101 or 2101 or 2111 or #; fall, every year)

Intensive investigation of a particular philosophical problem, area, or work of a philosopher. Topics vary.

Phil 4002. Existentialism. (Hist; 4 cr; prereq any 1xxx or 2xxx or #; fall, spring)

Examination of some prominent thinkers often classified as “existentialists”: Kierkegaard, Dostoevsky, Nietzsche, Sartre, and Camus. Topics include what human freedom is, what makes a life authentic (or inauthentic), what role passion and choice should play in acquiring our beliefs and values, and what difference (if any) God’s existence or non-existence makes on the significance of our lives.

Phil 4100. Moral Issues and Theories. (Hum; 4 cr [max 8 cr]; prereq 2111 or #; fall, even years)

Intensive investigation of a particular problem, area, issue, or theory in moral philosophy. Possible topics include moral responsibility, autonomy, weakness of will, and self-deception. Topics vary.

Phil 4111. Ethical Theory. (Hum; 4 cr; prereq 2111 or #; spring, even years)

This course in metaethics focuses on the nature of moral obligation. Topics include: Can moral obligations change with the passage of time? Are genuine moral dilemmas possible? Does “ought” imply “can”? Is moral obligation overriding? Is there a genuine distinction between “subjective” and “objective” moral obligation?

Phil 4121. Philosophy of Language. (Hum; 4 cr; prereq 2101 or #; spring, odd years)

Traditional and contemporary discussions of philosophical problems such as the nature of language, its relationships to the world, to human thought, and to truth; the nature of logical reasoning; metalogical problems. Readings from philosophers such as Frege, Russell, Quine, Putnam, Goodman, Wittgenstein, and Kripke.

Phil 4130. Contemporary Issues in Philosophy. (Hum; 4 cr [max 8 cr]; prereq 1101 or 2101 or 2111 or #; fall, odd years)

Exposure to, and critical examination of, philosophical issues of special contemporary interest. Topics may include the nature of analytic philosophy and its relationship to other philosophical traditions such as continental or feminist philosophy, the debate on realism and anti-realism, the notion of objectivity.

Phil 4131. Personal Identity, Proper Names, and Essences.

(Hum; 4 cr; prereq 1101 or 2101 or 2111 or #; offered when feasible)

A seminar primarily devoted to the discussion of readings, i.e., Naming and Necessity by Saul Kripke and Reasons and Persons by Derek Parfit. Questions such as: How do proper names function? Are there essential features of persons or objects? What makes each of us the same particular individual over time?

Phil 4901. Senior Philosophical Defense. (1 cr; prereq Phil major; fall, spring, every year)

Writing and defending a senior philosophical thesis is the culminating experience for UMM philosophy majors. Majors develop a substantial piece of their philosophical writing during a 4000-level seminar, producing multiple drafts in response to comments from a variety of philosophical viewpoints, and then orally defend their thesis.

Phil 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Physical Education and Athletics

(See Wellness and Sport Science.)

Physics (Phys)

This discipline is in the Division of Science and Mathematics.

Objectives—The physics program is designed to help students understand the concepts of classical and modern physics while also developing their ability to solve quantitative problems in these areas. It provides the opportunity for students to acquire the skills necessary to perform experimental work. The program develops students’ ability to communicate, in form and content, both verbally and in writing, the results of scientific work.

The physics program offers a background suitable for students planning to pursue graduate study or careers in industry, research, or teaching. It also provides a solid foundation for any career requiring analytical reasoning.

Division Structure and Course Descriptions

Major Requirements

Required Courses

Phys 1101—General Physics I, Sci-L (5 cr)
Phys 1102—General Physics II, Sci-L (5 cr)
Phys 2101—Modern Physics, Sci-L (5 cr)
Phys 3101—Classical Mechanics, Sci (4 cr)
Phys 4101—Electromagnetism, Sci (4 cr)
Phys 4201—Quantum Mechanics, Sci (4 cr)
Phys 4901—Senior Thesis (1 cr)
Math 1101—Calculus I, M/SR (5 cr)
Math 1102—Calculus II, M/SR (5 cr)
Math 2101—Calculus III, M/SR (4 cr)
Math 2401—Differential Equations, M/SR (4 cr)

Elective Courses

Take exactly 3 course(s) totaling exactly 12 credit(s) from the following:

Phys 2201—Circuits and Electronic Devices, Sci-L (4 cr)
Phys 3001—Astrophysics, Sci (4 cr)
Phys 3002—Biological and Medical Physics, Sci (4 cr)
Phys 3003—Computer Modeling of Materials, Sci (4 cr)
Phys 3201—Mathematical Methods in Physics, Sci (4 cr)
Phys 3301—Optics, Sci-L (4 cr)
Phys 3401—Experimental Physics, Sci-L (4 cr)
Phys 3501—Statistical Physics, Sci (4 cr)
Phys 3993—Directed Study (1–5 cr)
Phys 4993—Directed Study (1–5 cr)

Courses may not be taken S-N. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced. No grades below C- are allowed.

Minor Requirements

Required Courses

Phys 1101—General Physics I, Sci-L (5 cr)
Phys 1102—General Physics II, Sci-L (5 cr)
Phys 2101—Modern Physics, Sci-L (5 cr)
Math 1101—Calculus I, M/SR (5 cr)
Math 1102—Calculus II, M/SR (5 cr)
Math 2101—Calculus III, M/SR (4 cr)

Elective Courses

Take 4 or more credit(s) from the following:

Phys 2201—Circuits and Electronic Devices, Sci-L (4 cr)
Phys 2993—Directed Study (1–5 cr)
Phys 3001—Astrophysics, Sci (4 cr)
Phys 3002—Biological and Medical Physics, Sci (4 cr)
Phys 3101—Classical Mechanics, Sci (4 cr)

Phys 3201—Mathematical Methods in Physics, Sci (4 cr)
Phys 3301—Optics, Sci-L (4 cr)
Phys 3401—Experimental Physics, Sci-L (4 cr)
Phys 3501—Statistical Physics, Sci (4 cr)
Phys 3993—Directed Study (1–5 cr)
Phys 4101—Electromagnetism, Sci (4 cr)
Phys 4201—Quantum Mechanics, Sci (4 cr)
Phys 4993—Directed Study (1–5 cr)

Courses may not be taken S-N. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced. No grades below C- are allowed.

Teacher Preparation Requirements

Students seeking teaching licensure in physics 9–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Phys 1005. Journal Club I. (1 cr [max 2 cr]; S-N only; fall, every year)

Exposes freshman and sophomore students to current physics research topics. Students participate at presentations via discussion and are evaluated on a pass/fail basis only.

Phys 1052. The Solar System. (Sci-L; 5 cr; no cr for students who have received cr for Phys 1051; fall, every year)
History of astronomy; motions of celestial objects; gravity and electromagnetic radiation; the Earth and Moon; the planets and their moons; meteors and asteroids; the Sun; telescopes and other astronomical instruments. Stars and constellations of the fall sky. Night viewing sessions required. (4 hrs lect, 2 hrs lab)

Phys 1053. Introduction to Stars, Galaxies, and Cosmology. (Sci; 4 cr; spring, every year)
Gravity and electromagnetic radiation; nuclear physics; stellar properties; stellar evolution; galaxies; quasars; and cosmology. Stars and constellations of the winter sky. Night viewing sessions required. (4 hrs lect)

Phys 1061. Physics of Sound and Music. (Sci; 4 cr; fall, every year)
Wave characteristics, sound properties, resonance, the human voice and hearing, basic musical instruments, analysis and synthesis of complex waves, acoustics.

Phys 1062. Light and Color. (Sci; 4 cr; fall)
Introduction to the modern understanding of light and color. The wave and particle nature of light, light in modern physics (spectra, lasers, holography), atmospheric optics (blue sky, rainbows, ice crystal displays, etc.), the camera and photography, simple optical instruments (lenses, mirrors, eyeglasses, telescopes, binoculars), the human eye and vision, illusions, color, color perception and color theory. (4 hrs lect)

Phys 1091. Principles of Physics I. (Sci-L; 5 cr; prereq high school higher algebra; fall, every year)
Introduction to physics without the use of calculus. Vectors, kinematics, Newton’s laws of motion, work and energy, momentum, torque, fluids, thermal physics, laws of thermodynamics, oscillations and waves. (4 hrs lect, 2 hrs lab)

Phys 1092. Principles of Physics II. (Sci-L; 5 cr; prereq 1091; spring, every year)

Coulomb's law, electric fields, electric potential, capacitance, electric current, resistance, DC circuits, magnetism, induction, reflection and refraction of light, mirrors and lenses, interference and diffraction, optical instruments, radioactivity (4 hrs lect, 2 hrs lab)

Phys 1101. General Physics I. (Sci-L; 5 cr; prereq Math 1101 or #; spring, every year)

Vectors, kinematics, laws of motion, circular motion, work-energy theorem, conservation principles, rotational motion, gravitation, simple harmonic oscillations, wave phenomena, fluid mechanics, thermal properties of matter, kinetic theory, laws of thermodynamics. (4 hrs lect and rec, 2 hrs lab)

Phys 1102. General Physics II. (Sci-L; 5 cr; prereq 1101, Math 1102 or #; fall, every year)

Coulomb's law, electric field, Gauss's law, electric potential, capacitance, dielectrics, current, resistance, circuits, magnetic field, Ampere's law, inductance, Faraday's law, AC circuits, Maxwell's equations, electromagnetic waves, nature of light, reflection, refraction, optical instruments, interference, diffraction. (4 hrs lect and rec, 2 hrs lab)

Phys 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Phys 2101. Modern Physics. (Sci-L; 5 cr; prereq 1102, Math 2401 or #; spring, every year)

Special relativity, quantum nature of matter and radiation, Bohr-Sommerfeld atom, atomic spectra, uncertainty principle, Schrodinger equation, hydrogen atom, electron spin, Pauli principle, periodic table, radioactivity, fission and fusion of nuclei, properties of nuclei. (4 hrs lect, 3 hrs lab)

Phys 2201. Circuits and Electronic Devices. (Sci-L; 4 cr; prereq 1102 or #; spring, every year)

A hands-on practical course in electronics. Analog electronics including AC and DC circuit analysis, passive circuit elements, pn junctions, transistors, and op-amp circuits. Digital electronics including combinational logic, sequential logic, memory, CPU, and assembly programming. (3 hrs lect, 3 hrs lab)

Phys 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Phys 3001. Astrophysics. (Sci; 4 cr; prereq 2101; offered when feasible; fall, spring)

Topics may include but need not be restricted to spectroscopy, radiative transfer, solar system evolution and dynamics, stars and stellar evolution, galaxies, and cosmology. (4 hrs lect)

Phys 3002. Biological and Medical Physics. (Sci; 4 cr; prereq 1101, 1102; 2101 recommended; fall, spring)

Selected topics in biophysics with an emphasis on modern medical imaging techniques. Biophysical topics include fluid flow in cardiovascular systems, molecular transport, and the nervous system. Physics

techniques covered include electrocardiography, microscopy, x-ray imaging, magnetic resonance imaging, ultrasound imaging, computer tomography, and image reconstruction.

Phys 3003. Computer Modeling of Materials. (Sci; 4 cr; prereq 1101, 1102; offered when feasible; spring)

The description of materials as assemblies of microscopic particles. The various approximations for interparticle forces and their use in order to gain insight into the behavior of the macroscopic system. Aspects of molecular dynamics simulations and Monte Carlo simulations in various statistical ensembles. Projects include questions from experimental research.

Phys 3005. Journal Club II. (1 cr [max 2 cr]; prereq 1101, 1102; A-F only; fall, every year)

Introduction to current physics research topics not typically found in the standard physics curriculum. Investigation into one of these topics and a short public presentation. Exposes students investigating physics as a possible major or minor to presentation and literature searching techniques and helps build skills necessary for senior seminar.

Phys 3101. Classical Mechanics. (Sci; 4 cr; prereq 2101, Math 2101 or #; fall, even years)

Kinematics and dynamics of a particle, oscillations, central-force motion, systems of particles, rigid-body rotations, gravitation, non-inertial coordinate systems, Lagrangian and Hamiltonian formulations, dynamics of rigid bodies. (4 hrs lect)

Phys 3201. Mathematical Methods in Physics. (Sci; 4 cr; prereq Math 2101; fall, even years)

Complex analytic functions, Taylor and Laurent series, calculus of residues, Fourier series and integrals, series solutions of differential equations, partial differential equations, special functions, applications to physics. (4 hrs lect)

Phys 3301. Optics. (Sci-L; 4 cr; prereq 2101; spring, even years)

Light as a wave phenomenon, electromagnetic nature of light, Huygen's principle, interference, diffraction—Fraunhofer and Fresnel, polarization, dispersion, absorption and scattering. (3 hrs lect, 3 hrs lab)

Phys 3401. Experimental Physics. (Sci-L; 4 cr; prereq 2101; fall, odd years)

An introduction to modern experimental methods. (3 hrs lect, 3 hrs lab)

Phys 3501. Statistical Physics. (Sci; 4 cr; prereq 2101; spring, odd years)

Probability distributions, statistical ensembles, statistical thermodynamics, ideal gases, quantum statistics, kinetic theory of transport phenomena. (4 hrs lect)

Phys 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Phys 4101. Electromagnetism. (Sci; 4 cr; prereq 2101, Math 2101 or #; fall, odd years)

Vector calculus, electrostatics, Laplace and Poisson equations, dielectrics, magnetostatics, magnetic properties of matter, electromagnetic induction, Maxwell's equations, electrodynamics, electromagnetic waves. (4 hrs lect)

Phys 4201. Quantum Mechanics. (Sci; 4 cr; prereq 2101, Math 2101; spring, every year)

Uncertainty principle, Schroedinger equation, commutation relations, momentum space wave functions, Dirac notation, applications to problems in one dimension and the hydrogen atom, angular momentum. (4 hrs lect)

Phys 4901. Senior Thesis. (1 cr; prereq sr; course begins in fall and runs all year; fall, every year)

Capstone experience in physics. Investigation of a selected topic of current interest in physics. Presentation of results orally and in writing.

Phys 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Political Science (Pol)

This discipline is in the Division of the Social Sciences.

Objectives—Students who complete the political science major are able to critically analyze not only the behavior of political actors, but also their respective political institutions and political systems. The main objectives of the political science major are to enable students to use strong analytical skills and critical thinking in their analysis of theories, institutions, and processes in political science. The program prepares students for work in government and private business, and it prepares students for additional training in law and graduate programs.

A political science major is expected to show knowledge of political institutions, behavior, and processes in domestic and/or international settings. Students learn how and why governments are structured, operate, make policy, and manage social conflict. A political science major is expected to demonstrate a critical understanding of the major schools of political thought. Upon completion of the major, students of political science:

1. have the ability to critically analyze, interpret, and synthesize the theories that are prevalent in a major subfield of political science
2. are more empowered to participate in government due to increased familiarity with politics and government
3. are adequately prepared for entrance into graduate or professional school.

Major Requirements

Major Requirements include a minimum of 36 credits taken within the political science discipline, as well as either Stat 1601 or Stat 2601. Students majoring in Political Science are required to complete any two of the four introductory courses:

Pol 1101—Introduction to Political Inquiry: Thinking about Politics

Pol 1201—American Government and Politics

Pol 1301—Comparative Politics

Pol 1401—World Politics

Political science majors must also complete all of the requirements in at least one of the following subfields:

Subfield I: American Politics

Pol 1201—American Government and Politics

12 upper division credits in the American politics subfield (Pol 32xx or 42xx)

8 upper division credits in political theory (Pol 33xx or 43xx), international relations (Pol 34xx or 44xx), and/or comparative politics (Pol 35xx or 45xx)

4 additional elective credits in Pol 3xxx or 4xxx courses (Pol 4901 not eligible)

Pol 4901—Senior Research Seminar in American Government

Subfield II: International Relations and Comparative Politics

Pol 1301—Comparative Politics

or Pol 1401—World Politics

12 upper division credits in the international relations and comparative politics subfield (Pol 34xx, Pol 35xx, 44xx, 45xx)

8 upper division credits in American politics (Pol 32xx or 42xx) and/or political theory (Pol 33xx or 43xx)

4 additional elective credits in Pol 3xxx or 4xxx courses (Pol 4902 not eligible)

Pol 4902—Senior Research Seminar in International Relations and Comparative Politics

Subfield III: Political Theory

Pol 1101—Introduction to Political Inquiry: Thinking about Politics

12 upper division credits in the political theory subfield (Pol 33xx or 43xx)

8 upper division credits in American politics (Pol 32xx or 42xx), international relations (Pol 34xx or 44xx), and/or comparative politics (Pol 35xx or 45xx)

4 additional elective credits in Pol 3xxx or 4xxx courses (Pol 4903 not eligible)

Pol 4903—Senior Research Seminar in Political Theory

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

The political science discipline strongly recommends that students take advantage of opportunities in internships, field studies, and study abroad.

Minor Requirements

The political science minor requires at least 20 political science credits. Minors must complete any 1 of the 4 introductory courses:

Pol 1101—Introduction to Political Inquiry: Thinking about Politics

Pol 1201—American Government and Politics

Pol 1301—Comparative Politics

Pol 1401—World Politics

At least 8 of the 20 must be upper division Pol 3xxx or 4xxx credits

No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Pol 1101. Introduction to Political Inquiry: Thinking about Politics. (E/CR; 4 cr; fall, every year)

Origins and development of politics and government. Survey of contemporary political institutions and behavior. Major perennial questions are investigated at length and in depth. Critical thinking and class discussion provide the focus of the course.

Pol 1201. American Government and Politics. (E/CR; 4 cr; fall, spring, every year)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

Pol 1301. Comparative Politics. (IP; 4 cr; spring, every year)

Examines the nature of political authority, experience of social revolution, and achievement of economic transformation in the context of politics and government in selected countries around the world.

Pol 1401. World Politics. (IP; 4 cr; fall, every year)

The contemporary international system, including nationalism, international political economy, foreign policy formulation, and global concerns such as the environment and conflict. North/South debate, definitions of power, the new world order, regional vs. global conflicts, and avenues of cooperation.

Pol 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Pol 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Pol 3101. Political Science Analysis. (SS; 4 cr; prereq Stat 1601 or Stat 2601 or #; spring, every year)

Techniques commonly used in the systematic study of politics. Application of statistical techniques to recently released data using statistical software. Topics include the use of multivariate regression in political science and/or logistic regression, survey methodology, experimental design, and game theory.

Pol 3201. Legislative Process. (SS; 4 cr; prereq 1201 or #; Stat 1601 or Stat 2601 recommended; fall, every year)

The internal organization of Congress, with emphasis on how rules and organizational changes affect the policy process. Topics include the evolution of the modern Congress, the committee system, the role of party leadership, and competing theories of congressional organization. In addition, comparisons/contrasts are drawn from other legislatures in democracies around the world.

Pol 3231. Constitutional Law: Civil Liberties and Civil Rights.

(HDiv; 4 cr; prereq 1201 or #; spring, even years)
Examination of major Supreme Court opinions in the areas of freedom of religion, speech, assembly, and the press. Topics include the definitions of obscenity and libel, the Court's struggle with the right to privacy, and civil rights.

Pol 3232. Constitutional Law: Governmental Powers and Constraints.

(SS; 4 cr; prereq 1201 or #; spring, odd years)
Examination of major Supreme Court opinions in the areas of congressional, executive, and judicial authority; nation-state relations, and economic liberties. Topics include substantive vs. procedural due process, the Takings Clause, the contract clause, and the powers to tax and spend.

Pol 3251. Political Participation and Voting Behavior. (SS; 4 cr; prereq 1201 or #; fall, even years)

This course provides a broad overview of factors influencing the political behavior of groups and individuals both within and outside institutions. Particular emphasis is placed on examining issues such as voter turnout, economic influences on voting patterns, and social movement mobilization.

Pol 3261. State and Local Politics. (SS; 4 cr; prereq 1201 or #; spring, even years)

This course examines theoretical discussions of American democracy in the context of the actual performance of American government and society on a variety of levels. Particular emphasis is placed on the ways American democracy functions on the subnational level in states, rural communities, and urban centers. Analysis of principles, organizations, procedures, and functions of state and local government, both urban and rural, in the United States.

Pol 3262. Minorities and Public Policy. (HDiv; 4 cr; prereq 1201 or #; fall, even years)

Analysis of the ways race, ethnicity, and other factors shape political engagement; their implications for public policy and the policy process.

Pol 3263. Political Psychology. (SS; 4 cr; prereq 1201; Psy 1051 or # recommended; fall, odd years)

Examines the utility of concepts from personality and social psychology for conducting political analysis and understanding political behavior. Explores the role of the individual, group processes, and the political context in political decision making by both leaders and nonleaders.

Division Structure and Course Descriptions

Pol 3267. Courtroom Proceedings in American State Courts.

(SS; 4 cr; prereq 1201 or #; offered when feasible; summer)
Understanding courtroom procedure by observation of actual courtroom activity. Observation of a wide range of judicial proceedings, including arraignments, trials, sentencing, involuntary commitments to mental and alcohol treatment facilities, and the acceptance of negotiated settlements and/or plea-bargains. Observation of state courts at both the trial and appellate level. [Continuing Education course]

Pol 3351. Political Thought: Ancient and Middle Ages. (Hum; 4 cr; prereq 1101 or #; fall, every year)

Survey of classical Greek thought, Plato and Aristotle, primitive natural law, Cynics and Stoics, theory in Roman Republic and Empire, early Christianity and the church fathers, moral theory and political theory, empire and church in ideology, Roman and canon law, St. Thomas, political thought in the 14th and 15th centuries.

Pol 3352. Political Thought: Modern. (Hum; 4 cr; prereq 1101 or #; spring, every year)

Machiavelli; theories during the Renaissance, Reformation, and the Counter-Reformation. Early modern absolutism, the emergence of modern contract theory, constitutionalism, liberalism, and utopianism.

Pol 3353. American Political Thought. (Hum; 4 cr; prereq 1101 or #; spring, odd years)

Development of the American political tradition from the Puritan theocracy to recent phases of American political life.

Pol 3401. U.S. Foreign Policy. (SS; 4 cr; prereq 1401 or #; fall, every year)

Institutions and processes of American foreign policy. Major factors to be considered and levels of analysis that allow for the examination and dissection of foreign policy decisions. Case study analysis, e.g., Cuban Missile Crisis, Vietnam, Iran/Contra-gate.

Pol 3411. International Law. (E/CR; 4 cr; prereq 1401 or #; spring, every year)

Relations of international law to individuals, states, the international community, jurisdictional problems, survey of principles developed by diplomatic agents and consuls, treaties, arbitration, treatment of aliens, pacific settlement. War and hostile measures short of war, military occupation, war crimes, neutrality, collective security sanctions.

Pol 3421. International Organizations. (E/CR; 4 cr; prereq 1401 or #; spring, odd years)

Origins of diplomacy and its role in maintaining communication among nations, including the recent and special role of international organizations. History of the practice of diplomacy, current bilateral diplomatic practices, and multilateral interactions as practiced through the United Nations and the League of Nations before it. Structure and functional agencies of the U.N. and role in international peacekeeping or collective security.

Pol 3453. Russian Politics and Foreign Policy. (IP; 4 cr; prereq 1401 or #; spring, even years)

Domestic and foreign policies of the former Soviet Union from the Bolshevik Revolution to the present. Nature of the Soviet empire, implosion of the Soviet Union, Russian Federalism, democratic and market reforms, ethnic conflicts, nuclear strategy, military policy, and diplomatic style.

Pol 3461. Diplomatic Negotiations. (IP; 4 cr; offered when feasible; summer)

This course focuses on the origins and nature of modern diplomacy and the art of diplomatic negotiations. The

course consists of three components: (1) the theory and practice of diplomatic negotiation; (2) negotiating styles; and (3) simulation of diplomatic negotiations (bilateral and multilateral negotiations, international conference, summitry, and mediation). This course is unique in that almost half of the course will be devoted to simulations/mock conferences and that students will gain first-hand knowledge of and valuable insights into diplomacy and negotiation through simulation. [Continuing Education course]

Pol 3501. Government and Politics of Asia. (SS; 4 cr; prereq 1301 or #; spring)

Examination of governments, political and leadership changes, and economic developments in China, Japan, and Korea. Modernization, democratization, political pluralism, revolution, authoritarianism, and civil-military relations.

Pol 3502. Government and Politics of Europe. (SS; 4 cr; prereq 1301 or #; fall, even years)

The comparative study of contemporary government/politics in Europe. Emphasizes influence of economic, cultural, and other factors. Parties, bureaucracy, legislatures, executives: way in which they reflect and contribute to political life.

Pol 3504. Latin American Politics. (IP; 4 cr; prereq 1301 or #; spring)

A comparative examination of central issues in and components of Latin American political life, including economic development, regimes and alliances, guerrilla wars, the armed forces, human rights, and democratic consolidation. Countries may include Argentina, Brazil, Chile, Colombia, El Salvador, and Cuba.

Pol 3505. Military and Political Development. (IP; 4 cr; prereq 1301 or #; fall)

Explores military intervention in government and the influence of the military on social and economic policies in a variety of regions.

Pol 3506. Government and Politics of Africa. (IP; 4 cr; prereq 1301 or #; fall)

Comparative study of government and politics of contemporary Africa, with special attention to state/society relations, interaction of politics and economic development, political institutions, and conflict.

Pol 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and faculty member for academic credit in areas not covered in the regular curriculum.

Pol 3996. Field Study in Political Science. (1–16 or [max 16 cr]; prereq #; max of 4 cr may be applied to the major or minor; fall, spring, every year)

Field study of governmental organization; internship with legislature, a state or local administrative office, lobbying group, or other position involving direct experience with government, governmental officials, or political organizations and environment.

Pol 4211. The American Presidency. (SS; 4 cr; prereq 1201 or #; Stat 1601 or Stat 2601 recommended; spring, odd years)

Traces the development of the American presidency over time. Major theories of presidential behavior and success are examined, as well as the literature on presidential popularity and executive/congressional relations.

Pol 4221. Judicial Politics. (SS; 4 cr; prereq 1201 or #; Stat 1601 or Stat 2601 recommended; fall, odd years)

Role of judges, police, attorneys, and interest groups within the political system, with analysis focusing on

each as political actors. Areas of discretion in the legal system. Extra-legal predictors of judicial decision making and certiorari voting.

Pol 4264. American Political Culture. (Hist; 4 cr; prereq 1201 or #; spring, odd years)

A survey of the ideas shaping the U.S. political system and Americans' political behavior. Examines the ways that U.S. political culture has shaped institutional development, policy outcomes, and the everyday political experiences within the political system.

Pol 4266. Media and Politics. (SS; 4 cr; prereq 1201 or #; spring, even years)

Relationships between mass media, government, and public in American Democracy. Democratic theory and media/press, role of informed citizenry in theories of U.S. democracy, role of media in informing the U.S. citizenry. Ways media influences public opinion, relationship of media, public opinion, and elites in politics.

Pol 4301. Contemporary Political Ideologies. (Hum; 4 cr; prereq 1101 or #; spring, every year)

Major currents of political theory from Marx to present: Marxism, socialism, syndicalism, anarchism, fascism, political ideologies of antidemocratic thought, and totalitarian regimes.

Pol 4451. Comparative Foreign Policy. (IP; 4 cr; prereq 1401 or #; spring, every year)

Comparative examinations of foreign policies of selected countries, i.e., the United States, China, and Russia (the Soviet Union). The rise and fall of the Cold War; the triangular relationship between Washington, Beijing, and Moscow; Russia's new foreign policy; and U.S. foreign and security policy in the post-Cold War era.

Pol 4452. International Relations Theory. (IP; 4 cr; prereq 1401 or #; offered when feasible; fall, spring)

Theory and practice of contemporary international relations. Realism and idealism, national power, systems theory, integration theory, war and peace, conflict resolution, and the world government.

Pol 4503. Women in Politics Worldwide. (IP; 4 cr; prereq 1201, 2101 or #; spring, even years)

Examines the ways gender influences politics throughout the world. Topics covered include: the "gender gap" and voter turnout, women's involvement in linkage organizations, such as parties and interest groups, and finally, policy outcomes regarding women in different kinds of political systems.

Pol 4507. Politics, Violence, Terrorism, and Peace. (IP; 4 cr; prereq 1301 or #; spring, even years)

Examination of causes, processes, and outcomes of violent social conflict, including repression, mass political protests, riot revolt, terrorism, and revolution.

Pol 4901. Senior Research Seminar in American Government. (SS; 4 cr; prereq sr, 1201 or #; fall, every year)

Guided research in American political institutions and processes. With the assistance of a faculty member, each student formulates testable research questions about some aspect of American government, develops a research design to address those questions, conducts a literature review, gathers data (either quantitative or qualitative), tests the hypotheses, writes up the findings, and makes an oral presentation of the work to the discipline faculty and graduating seniors.

Pol 4902. Senior Research Seminar in International Relations and Comparative Politics. (IP; 4 cr; prereq sr, 1301 or 1401 or #; fall, every year)

Guided research in international relations and comparative politics. With the assistance of a faculty member, each student formulates testable research questions about some aspect of international relations and comparative politics, develops a research design to address those questions, conducts a literature review, gathers data (either quantitative or qualitative), tests the hypotheses, writes up the findings, and makes an oral presentation of the work to the discipline faculty and graduating seniors.

Pol 4903. Senior Research Seminar in Political Theory. (Hum; 4 cr; prereq sr, 1101 or #; fall, every year)

Guided research in political theory. With the assistance of a faculty member, each student develops a research design to identify and address an important problem in the political theory literature, conducts a literature review, critically analyzes the material, summarizes the work in the form of a significant research paper, and makes an oral presentation of the work to the discipline faculty and graduating seniors.

Pol 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Psychology (Psy)

This discipline is in the Division of the Social Sciences. The psychology curriculum focuses on understanding scientific methods and applying them to the problems of the behavioral sciences and individual and social human behavior. It provides students with basic methodological skills, practice in applying these skills, and an introduction to core areas of psychology. The courses meet the needs of liberal arts students as well as students planning to specialize in one of the fields of psychology at the graduate level.

Objectives—1) Awareness of the range of knowledge in psychology; 2) competency in translating behavioral questions into the terms of scientific inquiry; 3) competency in reading and critically synthesizing the technical literature in psychology; 4) competency in quantifying and statistically analyzing behavior; 5) awareness of ethical issues in psychology.

Major Requirements

Psy 1051—Introduction to Psychology

Psy 2001—Research Methods in Psychology

Stat 1601—Introduction to Statistics

or Stat 2601—Statistical Methods

Division Structure and Course Descriptions

Learning and Cognition

At least one course from:

- Psy 3101—Learning Theory and Behavior Modification
- Psy 3111—Sensation and Perception
- Psy 3112—Cognition

Biological and Comparative Psychology

At least one course from:

- Psy 3201—Comparative Psychology
- Psy 3211—Biological Psychology
- Psy 3221—Behavioral Biology of Women
- Psy 3521—Health Psychology

Personality and Clinical Psychology

At least one course from:

- Psy 3302—Personality
- Psy 3313—Psychopathology
- Psy 4101—Helping Relationships

Developmental Psychology

At least one course from:

- Psy 2411—Introduction to Lifespan Developmental Psychology
- Psy 3401—Developmental Psychology I: Child Psychology
- Psy 3402—Developmental Psychology II: Adolescence
- Psy 3403—Developmental Psychology III: Adulthood, Aging, and Death
- Psy 3051—Psychology of Women and Gender

Social and Applied Psychology

At least one course from:

- Psy 3501—Social Psychology
- Psy 3502—Psychology and Law
- Psy 3513—Negotiation
- Psy 3541—Cultural and Cross-Cultural Psychology
- Psy 3701—Organizational Behavior
- Psy 3702—Personnel Psychology
- Pol 3263—Political Psychology

Advanced Seminar in Psychology

At least one course from:

- Psy 4910—Advanced Seminar in Cognitive Psychology
- Psy 4920—Advanced Seminar in Biological or Comparative Psychology
- Psy 4930—Advanced Seminar in Personality or Clinical Psychology
- Psy 4940—Advanced Seminar in Developmental Psychology
- Psy 4950—Advanced Seminar in Social Psychology
- Psy 4960—Advanced Seminar in Health Psychology

Additional elective credits to total at least 42 credits in the major (including required courses). Electives may be selected from any category above (except

Advanced Seminars) and the following:

- Psy 3611—History and Philosophy of Psychology
- Psy 4896—Field Experiences in Psychology
- Psy 2993, 3993, 4993—Directed Study
- Stat 3601—Data Analysis
- Stat 3611—Multivariate Statistics
- IS 3800—Practicum in Social Sciences
- IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

Psy 3800—Research Practicum

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Minor Requirements

- Psy 1051—Introduction to Psychology
- Psy 2001—Research Methods in Psychology
- Stat 1601—Introduction to Statistics
or Stat 2601—Statistical Methods

At least one course from four of the five following areas. At least one must be a designated lab course:

Learning and Cognition

- Psy 3101—Learning Theory and Behavior Modification
- Psy 3111—Sensation and Perception
- Psy 3112—Cognition

Biological and Comparative Psychology

- Psy 3201—Comparative Psychology
- Psy 3211—Biological Psychology
- Psy 3221—Behavioral Biology of Women
- Psy 3521—Health Psychology

Personality and Clinical Psychology

- Psy 3302—Personality
- Psy 3313—Psychopathology
- Psy 4101—Helping Relationships

Developmental Psychology

- Psy 2411—Introduction to Lifespan Developmental Psychology
- Psy 3401—Developmental Psychology I: Child Psychology
- Psy 3402—Developmental Psychology II: Adolescence
- Psy 3403—Developmental Psychology III: Adulthood, Aging, and Death
- Psy 3051—Psychology of Women and Gender

Social and Applied Psychology

- Psy 3501—Social Psychology
- Psy 3502—Psychology and Law
- Psy 3513—Negotiation
- Psy 3541—Cultural and Cross-Cultural Psychology

Psy 3701—Organizational Behavior

Psy 3702—Personnel Psychology

Pol 3263—Political Psychology

Additional elective credits to total at least 30 credits in the minor (including required courses). Electives may be selected from any category above and the following:

Psy 3611—History and Philosophy of Psychology

Psy 4896—Field Experiences in Psychology

Psy 2993, 3993, 4993—Directed Study

Stat 3601—Data Analysis

Stat 3611—Multivariate Statistics

IS 3800—Practicum in Social Sciences

IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

Psy 3800—Research Practicum

No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Psy 1051. Introduction to Psychology. (SS; 4 cr; fall, spring, every year)

An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology. Includes laboratory/discussion sessions.

Psy 1061. Introduction to the Development of the Child and Adolescent. (SS; 4 cr; prereq 1051 or #; spring, every year)

Theory, data, and research approaches in development from birth through adolescence. Prenatal and physical development as well as perceptual, cognitive, language, personality, and social development. Multicultural/global perspective. Designed for students aiming for teacher certification, who receive priority in registration. Does not count for elective credit for the 16-credit psychology component of the LAHS major or for the psychology major or minor. Does count toward the 8-credit “other” category for the LAHS major. A more in-depth alternative to this course is Psy 3401 and Psy 3402. Students double majoring in education and psychology should consider the Psy 3401 and 3402 alternative to this course.

Psy 1071. Human Sexuality. (SS; 4 cr; fall, every year)

Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of identity, sex role, and gender orientation; varieties of sexual expression; pregnancy and child birth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

Psy 1081. Drugs and Human Behavior. (SS; 2 cr; spring, every year)

Survey of psychoactive drugs, their effects on mind and behavior, and prevention and treatment of drug abuse.

Psy 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Psy 2001. Research Methods in Psychology. (SS; 4 cr; prereq 1051, Stat 1601 or Stat 2601 or #; fall, spring, every year)

Design, analysis, and interpretation of research in psychology. Instruction on different research techniques and ethics in research. Students conduct, analyze, and evaluate empirical research and gain experience preparing APA-style research reports. Includes laboratory/discussion sessions.

Psy 2411. Introduction to Lifespan Developmental Psychology. (SS; 4 cr; =[Psy 3401/3402/3403]; prereq 1051; counts as elective cr for the Psy major or minor, and psy elective for the LAHS major; fall, every year)

An introduction to theory, data, and research approaches in development from the prenatal period through childhood, adolescence, adulthood, and aging until the cessation of life. Includes physical, perceptual, cognitive, language, moral, personality, socio-emotional, family, and career development and changes over time, as well as issues of death, dying, and bereavement. Includes a multicultural focus. Students who intend a deeper focus in developmental psychology should consider 3401-3402-3403, an upper-division alternative to this course.

Psy 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Psy 3051. The Psychology of Women and Gender. (HDiv; 4 cr; prereq 1051 or #; spring, every year)

Exploration of the interactive biological, psychological, and socio-cultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

Psy 3101. Learning Theory and Behavior Modification. (SS; 4 cr; prereq 2001 or #; fall, every year)

Major theories of learning and their importance for understanding human and nonhuman behavior. Classical and operant conditioning, generalization, discrimination, stimulus control, animal cognition. Behavior modification theories and techniques and their application to clinical populations. Lab projects demonstrate learning and behavior modification theories, concepts, and techniques and illustrate research methods and theory testing. Includes lab.

Psy 3111. Sensation and Perception. (SS; 4 cr; prereq 2001 or #; fall, every year)

Empirical study of sensory processes and perceptual organization with emphasis on vision and audition.

Division Structure and Course Descriptions

Anatomy and physiology of sense organs, psychophysics, signal detection theory, attention, speech perception, and perceptual-motor coordination. Includes lab.

Psy 3112. Cognition. (SS; 4 cr; prereq 2001 or #; spring, every year)

Empirical study of memory, language behaviors, representation of knowledge, judgment, decision making, problem solving, and creative thinking. Includes lab.

Psy 3201. Comparative Psychology. (Sci-L; 4 cr; prereq [1051, 2001] or Biol 2111; spring, every year)

Phylogenetic comparison of animal behavior emphasizing mechanisms of adaptation. Mechanisms of speciation, behavior genetics, evolution and ontogeny of the central nervous system, ethological determinants of behavior and learning. Includes lab.

Psy 3211. Biological Psychology. (Sci-L; 5 cr; prereq [1051, 2001] or Biol 1101 or Biol 1111; fall, every year)

Brain organization and function; an emphasis on an understanding of the neural processes that underlie human and nonhuman behavior. Incorporates information from psychology, neuroscience, endocrinology, physiology, chemistry, neurology, and zoology to investigate the physiological basis of behavior. Topics include sensory processes, drugs and addiction, biological rhythms, sexual differentiation, reproduction, methods in neuroscience, neuropsychological disorders, and clinical assessment. Lab projects focus on neuroanatomical organization and function of the brain. (4 hrs lect, 1 hr lab)

Psy 3221. Behavioral Biology of Women. (Sci; 2 cr; prereq 3211 or Biol 2111 or #; offered when feasible; fall, spring)

Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, and dominance.

Psy 3302. Personality. (SS; 4 cr; prereq 1051, Stat 1601 or Stat 2601 or #; spring, every year)

Nature of personality constructs and theories. Conscious vs. unconscious processes; emotion and motivation; nature and measurement of personal traits; their dimensional structure, stability, development, and heritability.

Psy 3313. Psychopathology. (SS; 4 cr; prereq 3302, Stat 1601 or Stat 2601; spring, every year)

Psychological disorders and their treatment, including anxiety, personality, affective, schizophrenic, and other recognized disorders of children and adults.

Psy 3401. Developmental Psychology I: Child Psychology. (SS; 4 cr; prereq 1051 or #; fall, every year)

Theory, data, and research in development from conception to adolescence. Prenatal and physical development as well as perceptual, cognitive, personality, and social development. Language acquisition and Piaget's theory of cognitive development.

Psy 3402. Developmental Psychology II: Adolescence. (SS; 2 cr; prereq 1051 or #; spring, every year)

Theory, data, and research in adolescent development with emphasis on physical, cognitive, and social development.

Psy 3403. Developmental Psychology III: Adulthood, Aging, and Death. (E/CR; 4 cr; prereq 1051 or #; fall, every year)

An overview of current concepts, theories, and methods in the study of adult development and aging. Provides students with an applied-learning experience through a service learning component. Theoretical and methodological content is integrated with service learning, involving approximately one hour per week of work outside the classroom. Focus is on individual biological and social-psychological development, but also incorporates historical, sociological, and anthropological perspectives where appropriate.

Psy 3501. Social Psychology. (SS; 4 cr; prereq 1051 or Soc 1101 or #; fall, every year)

Theories and research in the study of interpersonal behavior. Topics include aggression, prejudice, altruism, persuasion, group dynamics, and social influence.

Psy 3502. Psychology and Law. (SS; 2 cr; prereq 3501; spring, odd years)

A psychological perspective to the law and to the legal system. Topics include jury decision making, forensic psychology, and trial processes.

Psy 3513. Negotiation. (SS; 4 cr; =[Mgmt 3513]; prereq 3501 or Mgmt 3221 or Psy/Mgmt 3701; spring, even years)

Same as Mgmt 3513. Examines the theoretical and applied aspects of negotiation. Topics include negotiation theory, strategy, skills and tactics, communication processes, global negotiation, and ethics. Use of negotiation simulations.

Psy 3521. Health Psychology. (SS; 4 cr; prereq 1051; spring, every year)

Health implications of interactions among behavioral, environmental, and physiological states. Physiological bases of behavior and health; stress and coping; behavioral antecedents of disease; psychoneuro-immunology; disease prevention and health promotion.

Psy 3541. Cultural and Cross-Cultural Psychology. (HDiv; 2 cr; prereq 2001, [3302 or 3313 or 3401 or 3402 or 3403 or 3501 or 3521] or #; fall, every year)

Theoretical and methodological approaches to the study of human psychological diversity and cultural differences in psychological functioning. Topics may include: the cultural psychology of the self, emotions, cognition, and morality; cross-cultural human development; culture and mental health; the history of cultural/cross-cultural psychology; the indigenous psychology movement; and community-based approaches to race, ethnicity, and psychology.

Psy 3611. History and Philosophy of Psychology. (Hist; 2 cr; prereq 1051; spring)

Historical roots and comparative features of major theoretical systems in psychology, including their viewpoints on scientific methodology, research interests, and techniques. Component variables, hypotheses, and laws of structural, functional, behavioristic, Gestalt, psychoanalytic, and existential movements and their modern syntheses.

Psy 3701. Organizational Behavior. (SS; 4 cr; =[Mgmt 3701]; prereq jr or sr; fall, spring)

Same as Mgmt 3701. Uses the theories and research of the behavioral sciences to understand how organizations function at the individual, group, and organizational levels. Topics include stress in the workplace; group dynamics; power, leadership, and attribution theory.

Psy 3702. Personnel Psychology. (SS; 2 cr; =[Mgmt 3702]; prereq Psy/Mgmt 3701; spring, odd years)
Same as Mgmt 3702. Focus on a behavioral science perspective to understanding personnel issues within organizations. Topics include performance appraisal, training and development, selection, and job analysis.

Psy 3800. Research Practicum. (1-6 cr [max 6 cr]; prereq #: fall, spring, every year)
Research activity carried out under the supervision of a psychology faculty member.

Psy 3993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Psy 4101. Helping Relationships. (SS; 4 cr; prereq 3302; fall, spring, every year)
Approaches to counseling and psychotherapy. Theories of helping relationships. Acquisition of helping skills, including attending behavior, reflection of feeling, paraphrasing, confrontation, and summarization. Major humanistic, cognitive, and behavioral approaches. Didactic instruction, observation of counseling and psychotherapeutic techniques, and practical experiences.

Psy 4896. Field Experiences in Psychology. (SS; 1-4 cr [max 4 cr]; prereq #, which normally requires 4101 for work in psychiatric settings, 3302, 3401 or 3402 for work in schools; SS [if taken for 2 or more cr]; only 4 cr may be applied to the BA or the Psy major; S-N only; fall, spring, every year)
Individually arranged, supervised observation of and assistance with activities of professional psychologists in schools, clinics, hospitals, and other field settings.

Psy 4910. Advanced Seminar in Cognitive Psychology. (SS; 4 cr; =[Psy 4710]; prereq 2001, 3111 or 3112, sr status, #; A-F only; fall, every year)
Advanced seminar on selected topics in the area of Cognitive Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4920. Advanced Seminar in Biological or Comparative Psychology. (SS; 4 cr; =[Psy 4720]; prereq 2001, 3201 or 3211, sr status, #; A-F only; spring, every year)
Advanced seminar on selected topics in the area of Biological and Comparative Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4930. Advanced Seminar in Personality or Clinical Psychology. (SS; 4 cr; =[Psy 4730]; prereq 2001, 3302 or 3313, sr status, #; A-F only; spring, every year)
Advanced seminar on selected topics in the area of Personality or Clinical Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4940. Advanced Seminar in Developmental Psychology. (SS; 4 cr; =[Psy 4740]; prereq 2001, 3401 or 3402 or 3403, sr status, #; A-F only; fall, every year)
Advanced seminar on selected topics in the area of Developmental Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4950. Advanced Seminar in Social Psychology. (SS; 4 cr; =[Psy 4750]; prereq 2001, 3501, sr status, #; A-F only; spring, every year)
Advanced seminar on selected topics in the area of Social Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4960. Advanced Seminar in Health Psychology. (SS; 4 cr; =[Psy 4760]; prereq 2001, 3302 or 3313, sr status, #; A-F only; fall, every year)
Advanced seminar on selected topics in the area of Health Psychology. Members of the seminar read and discuss primary source material on a topic of common interest. In addition, each student investigates a related topic in greater depth. The student writes a paper and gives a public presentation based on the in-depth investigation.

Psy 4993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Secondary Education

(See Education, Secondary.)

Social Science Major

This interdisciplinary major is in the Division of the Social Sciences.

Objectives—Students will understand how each social science discipline structures and advances knowledge, raises and answers analytical questions, and deals with competing theories and the changing nature of the field. Students develop an area of focus in a single discipline or an interdisciplinary social science area within the major.

Advising and Evaluation—Students work closely with their advisers to plan a program that satisfies the required competencies in a chosen area of focus and in the social science disciplines. Program plans must be on file with the Social Sciences Division Office by the completion of a student's junior year.

Division Structure and Course Descriptions

Program—While the programs of individual students may vary, based upon arrangements approved by the divisional committee for the social science major, the minimum competencies required for each discipline normally may be achieved by completion of the following courses:

Anth 1111—Introductory Cultural Anthropology

Econ 1112—Principles of Macroeconomics

Econ 1951—Seminar for Social Science Majors

Geog 2001—Problems in Geography

Hist 1301—Introduction to United States History

Pol 1201—American Government and Politics

Psy 1051—Introduction to Psychology

Soc 1101—Introductory Sociology

Stat 1601—Introduction to Statistics or equivalent proficiency in statistics approved by the divisional committee for the social science major

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

The area of focus most often is demonstrated by completing the minor in that discipline. Area of focus plans should be on file with the Social Sciences Division Office by the end of a student’s junior year. Individual plans can be devised, but the total number of introductory and upper-level credits will be similar to that found among minors in the Social Sciences:

Anthropology—In addition to Anth 1111, the area of focus includes Anth 2101, Anth 3411, and 12 additional credits in Anth or Soc at 2xxx or above.

Economics—In addition to Econ 1112 and 1951, the area of focus includes Econ 1111, 3201, 3202, Math 1101, and 6 additional credits in Econ at 3xxx or above. No more than 4 credits from each of Econ x993 or Econ 490x can be applied to the area of focus.

History—In addition to Hist 1301, the area of focus includes Hist 1101 or 1102 and four additional courses of which at least three are at 2xxx or higher. There should be evidence of work in at least two different geographic areas, with at least one of these in a non-Western area.

Management—In addition to Econ 1112, the area of focus includes Econ 1111, Mgmt 2101, 2102; 10 additional credits in Mgmt courses at 3xxx or above. No more than 4 credits from each of Econ 4501 or Mgmt x993 can be applied to the area of focus.

Political Science—In addition to Pol 1201, the area of focus includes 16 additional credits in Pol, at least 8 of which need to be at 3xxx or higher.

Psychology—In addition to Psy 1051, the area of focus includes Psy 2001 and 18 additional credits from the courses listed below, with at least one course from four of the five following areas. At least one must be a designated lab course:

Learning and Cognition

Psy 3101—Learning Theory and Behavior Modification

Psy 3111—Sensation and Perception

Psy 3112—Cognition

Biological and Comparative Psychology

Psy 3201—Comparative Psychology

Psy 3211—Biological Psychology

Psy 3221—Behavioral Biology of Women

Psy 3521—Health Psychology

Personality and Clinical Psychology

Psy 3302—Personality

Psy 3313—Psychopathology

Psy 4101—Helping Relationships

Developmental Psychology

Psy 2411—Introduction to Lifespan Developmental Psychology

Psy 3401—Developmental Psychology I: Child Psychology

Psy 3402—Developmental Psychology II: Adolescence

Psy 3403—Developmental Psychology III: Adulthood, Aging, and Death

Psy 3051—Psychology of Women and Gender

Social and Applied Psychology

Psy 3501—Social Psychology

Psy 3502—Psychology and Law

Psy 3513—Negotiation

Psy 3541—Cultural and Cross-cultural Psychology

Psy 3701—Organizational Behavior

Psy 3702—Personnel Psychology

Pol 3263—Political Psychology

Additional elective credits to total at least 26 credits in the Psychology area of focus (including required courses). Electives may be selected from any category above and from the following:

Psy 3611—History and Philosophy of Psychology

Psy 4896—Field Experiences in Psychology

Psy 3993, 4993—Directed Study

Stat 3601—Data Analysis

Stat 3611—Multivariate Statistics

IS 3800—Practicum in Social Sciences

IS 4101—Introduction to Professional Conduct Codes, Legal Constraints, and Ethics in the Human Services

Psy 3800—Research Practicum

Sociology—In addition to Soc 1101, the area of focus includes Soc 3101, either Soc 3401 or 3402, and 12 more credits in Soc. Soc 4901 and Soc 4902 are highly recommended.

Women’s Studies—The area of focus requires WoSt 1101 and an additional 24 credits, selected from at least three disciplines, from the courses listed under the women’s studies major.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Anth 1111. Introductory Cultural Anthropology. (SS; 4 cr; fall, spring, every year)

Varieties and range of human behavior as revealed through the comparative study of cultures throughout the world. Concepts developed by anthropologists to explain both the unity and diversity of humankind.

Econ 1112. Principles of Macroeconomics. (SS; 4 cr; prereq high school algebra or #; fall, spring, every year)

Introduction to basic economic problems, concepts, and theoretical models. U.S. economic institutions and the economic organization of society. The role of markets in the production and distribution of societal resources. Measurement of economic performance; national income, inflation, and unemployment; competing macroeconomic theories and stabilization policies.

Econ 1951. Seminar for Social Science Majors.

(1 cr; prereq 1112; no cr for students who are concurrently enrolled in or have received cr for 3xxx Econ courses; S-N only; fall, spring, every year)

Familiarization with various journals, periodicals, and sources of statistical information that deal with current developments in economics.

Geog 2001. Problems in Geography. (Envst; 4 cr; spring, every year)

Basic concepts and questions in the field of geography. The terminology and approaches of geographical inquiry and analysis, with emphasis on the spatial patterns and arrangements of human interaction with the landscape and the production of geographical knowledge.

Hist 1301. Introduction to U.S. History. (Hist; 4 cr; fall, every year)

Methods, themes, and problems in the study of the history of the United States.

Pol 1201. American Government and Politics. (E/CR; 4 cr; fall, spring, every year)

Analysis of principles, organization, procedures, and powers of government in the United States. The federal system, national constitution, civil and political rights, party system; nature, structure, powers, and procedures of legislative, executive, and judicial departments of the national government.

Psy 1051. Introduction to Psychology. (SS; 4 cr; fall, spring, every year)

An introduction to the science of mind and behavior. Topics include history of psychology, research methods, biological bases for behavior, life span development, sensation and perception, learning, cognitive and social processes, personality, psychopathology, and applications of psychology. Includes laboratory/discussion sessions.

Soc 1101. Introductory Sociology. (SS; 4 cr; fall, spring, every year)

Basic concepts, theories, and methods of sociology; survey of some of the institutional areas in which sociologists specialize.

Stat 1601. Introduction to Statistics. (M/SR; 4 cr; prereq high school higher algebra; fall, spring, every year)

Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical

and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations. ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

Sociology (Soc)

This discipline is in the Division of the Social Sciences.

Objectives—The sociology curriculum (with support from anthropology courses) is designed to acquaint students with the concerns, theories, and methods of the science that deals with groups, culture, and interpersonal relations of human beings. In addition to an introduction to sociology as a science, an effort is made to relate human values to the theories, methods, and data of sociology. Courses are designed to meet the needs of liberal arts students and those preparing for graduate school.

Major Requirements

A minimum of 36 credits in sociology and anthropology, 28 of which must be in 2xxx, 3xxx, and 4xxx courses and must include:

Soc 1101—Introductory Sociology

Soc 4901—Independent Project Seminar I

Soc 4902—Independent Project Seminar II

One course from:

Soc 3101—Qualitative Research Methodology

Soc 3102—Quantitative Research Methodology

One course from:

Soc 3401—Classical Sociological Theory

Soc 3402—Contemporary Sociological Theory

All four of the above courses are recommended.

Stat 1601—Introduction to Statistics is strongly recommended

Students develop a coherent program of study in consultation with their major adviser generally no later than the spring semester of their sophomore year. Up to 4 credits of coursework with a grade of D or D+ may be used to meet the Major Requirements if offset by an equivalent number of credits of A or B.

A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Division Structure and Course Descriptions

Minor Requirements

A minimum of 6 courses (24 credits) in sociology and anthropology, including:

Soc 1101—Introductory Sociology

Soc 3101—Qualitative Research Methodology
or Soc 3102—Quantitative Research Methodology

Soc 3401—Classical Sociological Theory
or Soc 3402—Contemporary Sociological Theory

Three anthropology or sociology electives

Soc 4901—Independent Project Seminar I
and Soc 4902—Independent Project Seminar II are highly recommended

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.

A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in social studies 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Note: Soc 3204, 3451, 3452, 3601, and 3602 may also be taken for credit in Anthropology.

Soc 1101. Introductory Sociology. (SS; 4 cr; fall, spring, every year)

Basic concepts, theories, and methods of sociology; survey of some of the institutional areas in which sociologists specialize.

Soc 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

Soc 2101. Systems of Oppression. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism, ageism, and ableism.

Soc 2993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

Soc 3101. Qualitative Research Methodology. (4 cr; prereq 1101; fall, every year)

Introduction to qualitative research procedures used in sociology. Overview of qualitative techniques in context of professional sociological research and student research design.

Soc 3102. Quantitative Research Methodology. (4 cr; prereq 1101; spring, every year)

Practical issues in quantitative sociological research; quantitative research project design, sociological statistics, data analysis, SPSS, reporting, and presentation.

Soc 3111. Sociology of Modernization. (IP; 4 cr; prereq 1101 or Anth 1111 or #; spring, every year)

Process of modernization in non-Western societies. Social, economic, and political impact of modernization from different theoretical perspectives. Assessment of those theoretical perspectives as a means to understand dynamics of change in Third World countries.

Soc 3121. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)

An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Theoretical overview and an examination of how gender affects everyday experiences.

Soc 3122. Sociology of Childhoods. (HDiv; 4 cr; prereq 1101 or #; spring, odd years)

Introduction to the sociological study of childhoods. Examination of the interaction between societies and their youngest members—how societies shape children's lives through social institutions such as families, education, and the state. A close look at children's access to privileges and resources as determined by children's experiences of race, gender, class, nationality, and sexual orientation.

Soc 3131. World Population. (Env; 4 cr; prereq 1101 or #; fall, every year)

Population theory and demographic method. Dynamics of fertility and mortality as the basis of population forecasting and its policy implications. Emphasis on the tie between Third World demographic trends and population issues in the rest of the world.

Soc 3141. Sociology of Deviance. (E/CR; 4 cr; prereq 4 cr in Soc or #; fall, every year)

An introduction to the sociological study of deviance. Explore the social reality of deviance within contemporary society and examine the social construction of deviant categories. Specific focus on images of deviance as social constructs, rather than as intrinsic elements of human behavior. Investigation of the complex relationships between individual behavior and social structure, with a focus on power, inequality, and oppression. Also, an examination of the socio-cultural definitions of morality and behavior.

Soc 3201. Critical Perspectives in Rural Sociology. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; offered when feasible; spring)

Overview of the field of rural sociology. Covers demography, community, environment and natural resources, agriculture, and international development. Considerations of theoretical and methodological issues related to the disciplinary cornerstones of social organization and social change in rural areas.

Soc 3204. Culture, Food, and Agriculture. (Env; 4 cr; =[Anth 3204]; prereq 1101 or Anth 1111 or #; spring, even years)

Same as Anth 3204. Examines the globalization of food systems utilizing the political ecology of food to understand global and local dimensions of production, marketing, and consumption. Emphasis on connections between food production and national identity, relations of power, genetic engineering, environmental destruction, the politics of world hunger, and local efforts to achieve sustainability.

Soc 3251. African Americans. (HDiv; 4 cr; prereq 1101 or Anth 1111; offered when feasible; fall, spring)

Examination of African American religious, economic, political, family, and kinship institutions in the context of the greater American society. Struggles to overcome problems and the degree of success or failure of these struggles are examined and placed in historical context.

Soc 3252. Women in Muslim Society. (IP; 4 cr; prereq 1101 or Anth 1111; spring)

The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

Soc 3401. Classical Sociological Theory. (SS; 4 cr; prereq 1101; 4 addtl cr in Soc recommended; fall, every year)

Survey of major developments in classical sociological theory, with emphasis on the “Big Three”—Marx, Durkheim, and Weber, among others. Emphasis on sociological ideas in relation to the principal intellectual currents of European and American society.

Soc 3402. Contemporary Sociological Theory. (SS; 4 cr; prereq 1101; 4 addtl cr in Soc recommended; spring)

Survey of recent developments, trends, and debates in contemporary sociological theory; relationship of contemporary theories to classical theories and to current trends in European, American, and non-Western thought.

Soc 3451. Contemporary American Indians. (HDiv; 4 cr; =[Anth 3451]; prereq 1101 or Anth 1111 or #; fall, odd years)

Same as Anth 3451. The cultures of contemporary Indian tribes in the United States. Government policies, gaming, urban populations, education, self-determination, and identity.

Soc 3452. American Indian Women. (HDiv; 4 cr; =[Anth 3452]; prereq 1101 or Anth 1111 or #; fall, every year)

Same as Anth 3452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Soc 3601. Social Change and Development in Latin America. (IP; 4 cr; =[Anth 3601]; prereq 1101 or Anth 1111 or #; spring, every year)

Same as Anth 3601. Study of types of social change taking place in Latin American countries, including economic, political, social, religious, and cultural change. Problems faced, consequences of development, and other types of changes are placed in their social and cultural contexts.

Soc 3602. Women in Latin America. (IP; 4 cr; =[Anth 3602]; prereq 1101 or Anth 1111 or #; fall, odd years)

Same as Anth 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women’s movements, economic and political conditions, religion and women, etc.

Soc 3993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

Soc 4100. Tutorial in Sociological Theory. (2–4 cr [max 8 cr]; prereq 3401 or 3402, 4 addtl cr in Soc recommended; fall, spring)

Examines specific theorist(s). Topics vary according to student and staff interests and are announced in advance.

Soc 4901. Independent Project Seminar I. (1 cr; prereq 3101 or 3102, 3401 or 3402; A-F only; fall, every year)

A capstone seminar to guide sociology majors in the completion of an independent study project; selection and definition of a research project; small-group and one-on-one consultation and advising on defining a research topic, designing and planning its execution, developing a bibliography, relating relevant theoretical perspectives to research materials, organizing and writing a research paper.

Soc 4902. Independent Project Seminar II. (3 cr; =[Soc 4991]; prereq 4901; A-F only; spring, every year)

A capstone seminar to guide sociology majors in the completion of an independent study project; execution of a research project; small-group and one-on-one consultation and advising on conducting the research project planned in Soc 4901, developing a bibliography, relating relevant theoretical perspectives to research materials, organizing and writing a research paper.

Soc 4993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

Individualized on- or off-campus research project or other learning activity not covered in the regular Sociology curriculum. Topic determined by the student and instructor.

Spanish (Span)

This discipline is in the Division of the Humanities. It promotes a global perspective by encouraging students to take a close look at another culture and in this way become aware of both the diversity and similarity among all people.

Objectives—The Spanish curriculum offers coursework in Hispanic culture, language, and literature. The courses are designed to help students develop critical insight into the philosophy and values of another culture, fluency in a second language, and sensitivity toward literature that reflects the experience of the Spanish-speaking world. The curriculum accommodates liberal arts students interested in a cross-cultural perspective, language study, secondary school teaching, or preparation for graduate study in the field.

Major Requirements

Span 2001—Intermediate Spanish I

Span 2002—Intermediate Spanish II or equivalent

Span 3001—Spanish Composition and Conversation I

Span 3002—Spanish Composition and Conversation II

Span 3101—Introduction to Hispanic Literature

Span 3211—Literature and Culture of Latin America

Span 3212—Literature and Culture of Spain

Division Structure and Course Descriptions

Two additional 3xxx courses

Span 4001—Research Symposium

A foreign study experience and regular use of the language laboratory are strongly recommended to maintain language skills

Latin American Area Studies courses are also recommended

Required courses may not be taken S-N unless offered S-N only. No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Students majoring in Spanish are encouraged to take at least one year of instruction in another foreign language.

Minor Requirements

Span 2001—Intermediate Spanish I

Span 2002—Intermediate Spanish II or equivalent

Span 3001—Spanish Composition and Conversation I

Span 3002—Spanish Composition and Conversation II

Span 3101—Introduction to Hispanic Literature

Three additional 32xx and/or 36xx courses

A foreign study experience and regular use of the language laboratory are recommended to maintain language skills

Latin American Area Studies courses are also recommended

Required courses may not be taken S-N unless offered S-N only. No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in Spanish K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Required Proficiency/Placement

Examination—Students who plan to complete courses in the same language that they studied in high school must take the proficiency/placement examination and abide by the placement recommendation. If, after an initial exposure to the recommended course, the placement seems inappropriate, students may follow the recommendation of their language instructor as to the proper entry course.

Students not Majoring or Minor in Spanish

For an in-depth *cultural emphasis*, students should complete:

Span 1001—Beginning Spanish I

Span 1002—Beginning Spanish II or equivalent

Span 2001—Intermediate Spanish I

Span 2002—Intermediate Spanish II

Two additional courses chosen from LAAS and/or HUM courses offered by Spanish discipline faculty.

A foreign study experience is also recommended.

For an in-depth *language emphasis*, students should complete:

Span 1001—Beginning Spanish I

Span 1002—Beginning Spanish II or equivalent

Span 2001—Intermediate Spanish I

Span 2002—Intermediate Spanish II

Span 3001—Spanish Composition and Conversation I

Span 3002—Spanish Composition and Conversation II

A foreign study experience, special projects in language, and regular use of the language lab are recommended to maintain language skills

Study Abroad

In light of today’s increasingly interdependent world, the UMM Spanish faculty endorses study abroad, in combination with a Spanish major or minor, as the most effective means by which to

- improve language abilities
- broaden academic horizons
- globalize one’s world view
- expand career opportunities
- advance cross-cultural and problem-solving skills
- gain confidence in oneself personally and professionally.

Course Descriptions

Note: Students may not receive credit twice for a course that is offered in both English and Spanish.

Span 1001. Beginning Spanish I. (FL; 4 cr; fall, summer, every year)

Development of basic skills of Spanish (reading, speaking, writing, listening) and an introduction to the cultural contexts of Latin America and Spain.

Span 1002. Beginning Spanish II. (FL; 4 cr; prereq 1001 or placement or #; fall, spring, summer, every year)

Continuation of the sequence beginning with 1001.

Span 1311. Salvador Da Bahia, Brazil: Exploring Its African Identity. (IP; 2 cr; =LAAS 1311); offered when feasible; spring) Same as LAAS 1311. Focus on how Afro-Brazilian cultural identity is created and maintained in the face of globalization and immigration in Salvador da Bahia, a city in northeastern Brazil that embraces a vigorous and invigorating ethnic and cultural diversity. [Continuing Education course]

Span 1993. Directed Study. (1–5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Span 2001. Intermediate Spanish I. (IP; 4 cr; prereq 1002 or placement or #; fall, every year)

Review and building of the four basic skills in Spanish with emphasis on critical reading skills and writing for communication.

Span 2002. Intermediate Spanish II. (IP; 4 cr; prereq 2001 or placement or #; spring, every year)

Continuation of the sequence beginning with 2001.

Associated Languages: *Introduction to a number of languages and cultures of the Iberian Peninsula and Latin America, such as Portuguese.*

Span 2121. Associated Languages: Intensive Portuguese. (IP;

4 cr; prereq 2002 or Fren 2002 or #; offered when feasible)

Intensive, accelerated study of the basic skills of Brazilian Portuguese (reading, writing, listening, and speaking) with emphasis on oral competency.

Span 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Span 3001. Spanish Composition and Conversation I. (IP; 4 cr; prereq 2002 or #; fall, every year)

Further review of the four skills in Spanish, with emphasis on: 1) development of greater competence and confidence in conversational Spanish; 2) greater precision and sophistication in written communication; and 3) analytical proficiency in reading selections from diverse literary and cultural contexts.

Span 3002. Spanish Composition and Conversation II. (IP; 4 cr; prereq 3001; spring, every year)

Continuation of the sequence beginning with 3001.

Span 3101. Introduction to Hispanic Literature. (Hum; 4 cr; prereq 3001; prereq or coreq 3002 for majors; spring, every year)

Study of a variety of literary genres representing the literature of Spain and Latin America; rudiments of literary analysis and interpretation. Students should demonstrate the ability to read and comprehend the literary works studied, analyze works critically while developing a sensitivity toward certain cultural aspects and literary nuances expressed therein; participate in and comprehend sustained class discussion with respect to certain topics or themes; write with accuracy in Spanish and show some degree of analytical proficiency at the short paper level.

Span 3211. Literature and Culture of Latin America. (Hum; 4 cr; prereq 3002, 3101; fall)

Study of important exemplary works of Latin American literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

Span 3212. Literature and Culture of Spain. (Hum; 4 cr; prereq 3002, 3101; fall)

Study of important exemplary works of Spanish (peninsular) literary and cultural production through major historical periods. Texts are examined in light of multiple contexts, such as artistic, political, historical, and philosophical.

Seminar: *Courses numbered 36xx are seminars focused on specific areas of research in Latin American and Peninsular literature and culture. They are designed to complement the broad coverage of these areas in the two literature and culture courses by allowing students to choose courses in their areas of interest and study these areas more thoroughly.*

Span 3601. Seminar: Reality Born on Paper in Colonial Latin America. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Analysis of the multiple roles of writing during the conquest, the colonial period, and the era of independence and nation-building, as well as its vital importance in the shaping of Latin American “identity” and in the perception of the people and geography of the region.

Span 3602. Seminar: Contemporary. (Re-)Visions of Colonial Latin America. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the re-reading and re-writing of the Conquest and Colonial periods in Latin America, focusing on how these periods are approached, or fictionally reversed, by contemporary authors. Readings include narrative, poetry, and theater written during the 20th century, but based on or inspired by colonial texts.

Span 3621. Seminar: Confessions and Letters in Latin American Fiction. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; spring)

Study of confessions and letters in Latin American fiction. Fiction is seen as a combination of texts within other texts. The combination becomes part of the fictional game which imitates and enhances reality.

Span 3622. Seminar: Exile and Emigration in Latin American Fiction. (IP; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of contemporary Latin American literary texts where characters face forms of exile, abandonment, and displacement as a result of emigration to Europe and the United States.

Span 3623. Seminar: Ecology and Nature in Latin American Literature. (Envr; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of Latin American texts where authors create characters that read or misread Nature and its preservation or extinction. How globalization is making this issue more relevant in the Latin American context.

Span 3651. Seminar: Miguel de Cervantes Saavedra's *El ingenioso hidalgo Don Quijote de la Mancha*. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of Miguel de Cervantes Saavedra's novel *El ingenioso hidalgo Don Quijote de la Mancha* in light of its sociohistorical context.

Span 3652. Seminar: Literary Minorities in Early Modern Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the representative literary works written by or about Spanish Jewish and Muslim minorities from the middle ages to the 17th century in light of their respective sociohistorical contexts.

Span 3653. Seminar: María de Zayas: Literary Violence in Golden Age Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall)

Study of the major works of 17th-century writer María de Zayas y Sotomayor, *The Enchantments of Love* (1637) and *The Disenchantments of Love* (1647), in light of their sociohistorical contexts and the political issues surrounding the formation of literary canons.

Division Structure and Course Descriptions

Span 3654. Seminar: Sex, Love, and Marriage in Golden Age Spanish Literature. (Hum; 4 cr; prereq 3002, 3101; offered when feasible, fall)

The theme of sex, love, and marriage in Golden Age Spanish Literature through prose, poetry, and theatre of the Golden Age (XVI–XVII centuries) Spain. Consideration of the gender relations and gender politics reflected in the works and the sociohistorical context in which these works were produced.

Span 3671. Seminar: Origins of the Spanish Character. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall) Analysis of the Medieval and Golden Age roots of many of the beliefs and attitudes of contemporary Spain. Themes common to Spain, explored in both traditional and modern contexts, may include honor, patriotism, religion, idealism, individuality, satire, love, pride, etc.

Span 3672. Seminar: Reform in Spain: The Saint and the Journalist. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall) Analyzing, comparing, and contrasting the lives and writings of St. Teresa of Avila (XVI Century) and Mariano José de Larra (XIX Century) as they worked toward a better Spain. Difficulties of religious and cultural reform as well as differences in traditional and enlightenment values are explored.

Span 3681. Seminar: Romanticism and Revolution in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall) Study of representative texts (prose and poetry) from the first half of the 19th century in Spain, with emphasis on the expression of the Romantic vision within the particular political context of the period, marked by tensions between liberal reform and traditional conservatism.

Span 3682. Seminar: Realism and Reform in 19th-Century Spain. (Hum; 4 cr; prereq 3002, 3101; offered when feasible; fall) Study of representative texts (novels, stories, and essays) from the second half of the 19th century in Spain, with emphasis on the rise of realism as an exploration of the sociopolitical reality of the era and the need for reform. The focus is on general trends in Western cultures (eg., industrialization, positivism, secularization).

Span 3683. Seminar: Modernity and Identity in Spain, 1900–1930. (Hum; 4 cr; prereq 3002, 3101; offered when feasible, fall) Study of representative texts (prose and poetry) from the early decades of the 20th century in Spain with particular emphasis on their responses to changes brought by modernity: advancing technology, modern psychology, political experimentation, spiritual exploration, and artistic innovation.

Span 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year) An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Span 4001. Research Symposium. (Hum; 4 cr; prereq #: A-F only; fall, every year) A capstone experience for majors, consisting of an introduction to research methods and critical approaches to literature, as well as development of an independent research project and presentation.

Span 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year) An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Speech Communication (Spch)

This discipline is in the Division of the Humanities. The speech communication curriculum is designed to introduce UMM students to the study of the multidimensional nature of communication, to promote the skills of lifelong learning for producers and consumers of messages, and to develop in students the capabilities for active involvement in a participatory democracy.

Objectives—Students develop a historical and theoretical understanding of the three areas of speech communication: rhetoric, communication studies, and mass media. Students use a variety of assigned theoretical approaches appropriate to these three areas to describe and evaluate assigned or chosen discourse.

Students participate in a variety of oral communication assignments using informative and persuasive speaking techniques effectively.

Major Requirements

Prerequisite/Foundation Course

Spch 2101—Introduction to Theories of Speech Communication

Major Core Courses

Spch 3101—History of Rhetoric From the Classical to Modern Periods

Spch 3301—Media Theory, Criticism, and Problems

Spch 3401—Human Communication Theory

One course from:

Spch 3111—History of Rhetoric in the Contemporary Period

Spch 3211—Public Address

One course from:

Spch 3311—Social Uses of the Media

Spch 3321—Television Broadcasting

One course from:

Spch 3411—Intercultural Communication Theory and Research

Spch 3421—Organizational Communication Theory and Research

One course from:

Spch 4151—Argumentation: Theory and Practice

Spch 4201—Persuasion: Receiver Analysis

Elective

One additional 3xxx or 4xxx Spch course.

Senior Capstone Experience

Seniors must complete:

Spch 4900—Speech Communication Seminar I
and Spch 4901—Speech Communication
Seminar II

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the Major Requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Minor Requirements

Spch 2101—Introduction to Theories of Speech
Communication

One course from:

Spch 4151—Argumentation: Theory and Practice

Spch 4201—Persuasion: Receiver Analysis

One course from:

Spch 3101—History of Rhetoric From the Classical
to Modern Periods

Spch 3111—History of Rhetoric in the Contemporary
Period

Spch 3211—Public Address

One course from:

Spch 3301—Media Theory, Criticism, and Problems

Spch 3311—Social Uses of the Media

Spch 3321—Television Broadcasting

One course from:

Spch 3401—Human Communication Theory

Spch 3411—Intercultural Communication Theory and
Research

Spch 3421—Organizational Communication Theory
and Research

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the Major Requirements if offset by an equivalent number of credits of A or B. Required courses may not be taken S-N. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in communication arts and literature 5–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Course Descriptions

Spch 1042. Public Speaking and Analysis. (E/CR; 4 cr; summer)
Public address theories, practices, and analysis.

Spch 1052. Introduction to Public Speaking. (E/CR; 2 cr; fall, every year)

Activities, assignments, and exercises related to public address/public speaking in a variety of speech settings.

Spch 2052. Legal Advocacy: Speaking in Appellate Forensic Situations. (E/CR; 4 cr; spring, odd years)

Detailed study of the theory and practice of speaking in legal settings. Students prepare and present appellate argument. The final presentation is before a mock Supreme Court.

Spch 2101. Introduction to Theories of Speech Communication. (Hum; 4 cr; spring, every year)

A survey of the field of study that has emerged around the oral communication tradition. Students learn the history, theories, and contexts of communication study that prepare them for upper-division courses.

Spch 3071. Principles and Practices of Speech Communication. (E/CR; 4 cr; prereq #; fall, every year)

Those seeking licensure in communication arts/literature, or others in education, develop mastery of the principles and practices of public speaking, small group communication, and interpersonal communication. Students learn, reflect, and apply their knowledge of the three settings for communication explicated through the course.

Spch 3101. History of Rhetoric from the Classical to Modern Periods. (IP; 4 cr; prereq 2101 or #; fall, every year)

Rhetoric from the classical theories of Corax and Tisias, Aristotle, and Cicero to the modern theories of Blair, Campbell, and Whately.

Spch 3111. History of Rhetoric in the Contemporary Period.

(Hum; 4 cr; prereq 2101 or #; spring)
Detailed study of the development of contemporary rhetorical theory, with particular emphasis placed on the use of those theories in the development of rhetorical criticism.

Spch 3121. Rhetoric in the Movies: The Classic Genres. (Hum; 4 cr; prereq 2101 or #; fall, odd years)

Investigation of the film genres of the Hollywood Studio system era. Students learn how films make meaning with their audiences.

Spch 3211. Public Address. (Hum; 4 cr; prereq 2101 or #; fall, every year)

Approaches to the analysis and evaluation of oral discourse with special emphasis on the role of speech in the creation of human society.

Spch 3251. Free Speech on Trial: Communication Perspectives on Landmark Supreme Court Decisions. (E/CR; 4 cr; prereq 2101 or #; fall, odd years)

Analysis and evaluation of Supreme Court opinions establishing the contours of First Amendment protection for freedom of speech. Particular attention is devoted to the nature of “communication” revealed by the decisions studied.

Spch 3301. Media Theory, Criticism, and Problems. (SS; 4 cr; prereq 2101 or #; spring, every year)

Theories, research studies, current trends, and various critical approaches to examine and explain the reflexive relationships between media and society.

Division Structure and Course Descriptions

Spch 3311. Social Uses of the Media. (E/CR; 4 cr; prereq 2101 or #; spring, every year)

Participation in the planning, production, and performance of television projects designed to serve various publics, such as campus units or the community.

Spch 3321. Principles of Television Broadcasting. (Hum; 4 cr; prereq 2101 or #; fall, every year)

Basic theories and practice: equipment, procedures, and skills associated with writing for and the production of televised broadcasting. Lectures, studio projects, class critiques.

Spch 3331. Mass Media and Society. (SS; 4 cr; prereq 2101 or #; fall, even years)

Examines the historical and on-going development of the relationship of media, culture, and the public. Traces and explores the developments of various communication technologies, their impacts and consequences, and their relationships to notions of “the public.”

Spch 3401. Human Communication Theory. (SS; 4 cr; prereq 2101 or #; fall, every year)

Detailed study of the theoretical tradition of human communication. Focuses on social scientific and humanities theories used to explain social interaction. Provides general foundation on various traditions of inquiry as well as qualitative and quantitative methods.

Spch 3411. Intercultural Communication Theory and Research. (HDiv; 4 cr; prereq 2101 or #; fall, every year)

Study of intercultural communication from an interpersonal and group perspective.

Spch 3421. Organizational Communication Theory and Research. (SS; 4 cr; prereq 2101 or #; spring, every year)

Study of organizational communication, including small group perspectives.

Spch 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Spch 4151. Argumentation: Theory and Practice. (Hum; 4 cr; prereq 2101 or #; fall, every year)

A study of rhetorical argument design and evaluation. Students analyze and critique arguments, as well as plan and present formal speeches.

Spch 4201. Persuasion: Receiver Analysis. (Hum; 4 cr; prereq 2101 or #; spring, every year)

Investigation of persuasion theory and research from rhetorical and social science perspectives. Students analyze particular instances of persuasive attempts.

Spch 4800. Directed Experience in Teaching Speech Communication. (1–4 cr [max 8 cr]; prereq #; S-N only; fall, spring, every year)

Practice as facilitators in the introductory-level speech courses; weekly seminar sessions focus on method, planning, and problems in speech communication instruction.

Spch 4900. Speech Communication Seminar I. (1 cr; prereq 2101, 3101, 3301, 3401, or sr status and #; A-F only; fall, every year)

Familiarizes students with the literature of the field, including ethical and social implications of communication studies. Students analyze various articles and similarly published works, synthesize contents, and construct a research proposal for a project to be completed as a senior capstone experience.

Spch 4901. Speech Communication Seminar II. (Hum; 3 cr; prereq 2101, 3101, 3301, 3401, 4900, or sr status in the major; #; A-F only; spring, every year)

Completion of capstone experience for majors. Students conduct a project of original study and present their findings in written and oral form.

Spch 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Statistics (Stat)

This discipline is in the Division of Science and Mathematics. The mission of the discipline is to create and apply statistical methods/ techniques for collecting, exploring, analyzing, and communicating qualitative/quantitative information and to disseminate this knowledge through teaching, scholarly activity, and outreach.

Statistics is the science and art of enhancing knowledge in the face of uncertainty by modeling, predictions, and decisions. It is central to solutions of problems in medicine, law, industry, technology, finance, business, public policy, computing, and science in general. The need for statistics applies to almost every area of our lives.

Objectives—The statistics program provides an effective operational knowledge of the theory and methods of statistics and the application of statistical methods in a liberal arts environment. It seeks to enhance students’ critical thinking in making judgments based on data and provides students with the basic knowledge and skills to make contributions to modern society. Students learn to communicate and collaborate effectively with people in other fields and, in the process, to understand the substance of these fields. The curriculum prepares students to enter graduate school or pursue careers in statistical fields at research institutions and industry.

Major Requirements

Required Courses

Math 1101—Calculus I, M/SR (5 cr)

Math 1102—Calculus II, M/SR (5 cr)

Stat 2501—Probability and Stochastic Processes, M/SR (4 cr)

Stat 2611—Mathematical Statistics, M/SR (4 cr)

Stat 3601—Data Analysis, M/SR (4 cr)

Stat 4901—Senior Seminar, M/SR (1 cr)

Stat 1601—Introduction to Statistics, M/SR (4 cr)

or Stat 2601—Statistical Methods, M/SR (4 cr)

Elective Courses

Take 8 or more credit(s) from the following:

- Stat 3611—Multivariate Statistical Analysis, M/SR (4 cr)
- Stat 4601—Biostatistics, M/SR (4 cr)
- Stat 4611—Statistical Consulting, M/SR (4 cr)
- Stat 4631—Design and Analysis of Experiments, M/SR (4 cr)
- Stat 4651—Applied Nonparametric Statistics, M/SR (4 cr)
- Stat 1993—Directed Study (1–5 cr)
- Stat 2993—Directed Study (1–5 cr)
- Stat 3993—Directed Study (1–5 cr)
- Stat 4993—Directed Study (1–5 cr)

Additional Elective Courses

Take 4 or more credit(s) from the following: (Choose from the list below or from courses with faculty approval.)

- CSci 1301—Problem Solving and Algorithm Development, M/SR (4 cr)
- CSci 1302—Foundations of Computer Science, M/SR (4 cr)
- Econ 3501—Introduction to Econometrics, M/SR (4 cr)
- Math 2101—Calculus III, M/SR (4 cr)
- Math 2111—Linear Algebra, M/SR (4 cr)
- Math 2202—Mathematical Perspectives, M/SR (4 cr)
- Math 3221—Analysis, M/SR (4 cr)
- Math 3401—Operations Research, M/SR (4 cr)
- Math 3501—Applied Deterministic Modeling for Management Science, M/SR (2 cr)
- Math 3502—Applied Probabilistic Modeling for Management Science, M/SR (2 cr)
- Pol 3101—Political Science Analysis, SS (4 cr)
- Soc 3101—Research Methodology I (4 cr)
- Soc 3102—Research Methodology II (4 cr)

A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Students planning to pursue graduate work in statistics or biostatistics should complete Math 2101—Calculus III and consider taking Math 2202—Mathematical Perspectives and Math 3211—Analysis for Ph.D. preparation.

Minor Requirements

Required Courses

- Stat 3601—Data Analysis, M/SR (4 cr)
- Stat 1601—Introduction to Statistics, M/SR (4 cr)
or Stat 2601—Statistical Methods, M/SR (4 cr)

Elective Courses

Take 16 or more credit(s) from the following:

Stat courses

Take 1 or more course(s) from the following:

- Stat 2501—Probability and Stochastic Processes, M/SR (4 cr)
- Stat 2611—Mathematical Statistics, M/SR (4 cr)
- Stat 3611—Multivariate Statistical Analysis, M/SR (4 cr)
- Stat 4601—Biostatistics, M/SR (4 cr)
- Stat 4611—Statistical Consulting, M/SR (4 cr)
- Stat 4631—Design and Analysis of Experiments, M/SR (4 cr)
- Stat 4651—Applied Nonparametric Statistics, M/SR (4 cr)
- Stat 1993—Directed Study (1–5 cr)
- Stat 2993—Directed Study (1–5 cr)
- Stat 3993—Directed Study (1–5 cr)
- Stat 4993—Directed Study (1–5 cr)

Non-Stat courses

Take 0 or more course(s) from the following:

- CSci 1301—Problem Solving and Algorithm Development, M/SR (4 cr)
- CSci 1302—Foundations of Computer Science, M/SR (4 cr)
- Econ 3501—Introduction to Econometrics, M/SR (4 cr)
- Math 2101—Calculus III, M/SR (4 cr)
- Math 2111—Linear Algebra, M/SR (4 cr)
- Math 2202—Mathematical Perspectives, M/SR (4 cr)
- Math 3221—Analysis, M/SR (4 cr)
- Math 3401—Operations Research, M/SR (4 cr)
- Math 3501—Applied Deterministic Modeling for Management Science, M/SR (2 cr)
- Math 3502—Applied Probabilistic Modeling for Management Science, M/SR (2 cr)
- Pol 3101—Political Science Analysis, SS (4 cr)
- Soc 3101—Research Methodology I (4 cr)
- Soc 3102—Research Methodology II (4 cr)

A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Course Descriptions

Stat 1601. Introduction to Statistics. (M/SR; 4 cr; prereq high school higher algebra; fall, spring, every year)
Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one and two populations, ANOVA, regression analysis, and chi-squared tests; use of statistical computer packages.

Division Structure and Course Descriptions

Stat 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Stat 2501. Probability and Stochastic Processes. (M/SR; 4 cr; =[Math 2501]; prereq Math 1101 or #; fall, every year)

Same as Math 2501. Probability theory; set theory, axiomatic foundations, conditional probability and independence, Bayes' rule, random variables. Transformations and expectations; expected values, moments, and moment generating functions. Common families of distributions; discrete and continuous distributions. Multiple random variables; joint and marginal distributions, conditional distributions and independence, covariance and correlation, multivariate distributions. Properties of random sample and central limit theorem. Markov chains, Poisson processes, birth and death processes, and queuing theory.

Stat 2601. Statistical Methods. (M/SR; 4 cr; prereq Math 1101 or Math 1021; fall, every year)

Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, statistical quality control, use of statistical computer packages.

Stat 2611. Mathematical Statistics. (M/SR; 4 cr; prereq Math 1101; spring, every year)

Introduction to probability theory. Principles of data reduction; sufficiency principle. Point estimation; methods of finding and evaluating estimators. Hypothesis testing; methods of finding and evaluating tests. Interval estimation; methods of finding and evaluating interval estimators. Linear regression and ANOVA.

Stat 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Stat 3601. Data Analysis. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; fall, every year)

Nature and objectives of statistical data analysis, exploratory and confirmatory data analysis techniques. Some types of statistical procedures; formulation of models, examination of the adequacy of the models. Some special models; simple regression, correlation analysis, multiple regression analysis, analysis of variance, use of statistical computer packages.

Stat 3611. Multivariate Statistical Analysis. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; spring, every year)

Analysis of categorical data. Loglinear models for two- and higher-dimensional contingency tables. Logistic regression models. Aspects of multivariate analysis, random vectors, sample geometry and random sampling, multivariate normal distribution, inferences about the mean vector, MANOVA. Analysis of covariance structures: principal components, factor analysis. Classification and grouping techniques: discrimination and classification, clustering, use of statistical computer packages.

Stat 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Stat 4601. Biostatistics. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; spring)

Design and analysis of biological studies: biological assays, case-control studies, randomized clinical trials, factorial designs, repeated measures designs, observational studies, and infectious disease data. Analysis of survival data: basic concepts in survival analysis, group comparisons, and Cox regression model. Use of statistical computer packages.

Stat 4611. Statistical Consulting. (M/SR; 4 cr; prereq 3601, 3611; offered when feasible; fall, spring)

Statistical consulting skills needed to deal effectively with clients or project teams, formulate statistical models, explain analyses, use standard statistical computer packages, and write reports in language understandable to non-statisticians.

Stat 4631. Design and Analysis of Experiments. (M/SR; 4 cr; prereq 3601 or #; offered when feasible; fall, spring)

Design and analysis of experimental designs; blocking, randomization, replication, and interaction; complete and incomplete block designs; factorial experiments; crossed and nested effects; repeated measures; confounding effects.

Stat 4651. Applied Nonparametric Statistics. (M/SR; 4 cr; prereq 1601 or 2601 or 2611 or #; offered when feasible; fall, spring)

Application of nonparametric statistical methods. Examples use real data, gleaned primarily from results of research published in various journals. Nonparametric inference for single samples, paired samples, and independent samples, correlation and concordance, nonparametric regression, goodness-of-fit tests, and robust estimation.

Stat 4901. Senior Seminar. (M/SR; 1 cr; prereq sr; fall, every year)

Full-year course. Required for all statistics majors. Students must attend year round and present one of the seminars.

Stat 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Studio Art (Arts)

(See Art, Studio.)

Teacher Education Programs

(See Education; Education, Elementary; and Education, Secondary.)

Theatre Arts (Th)

This discipline is in the Division of the Humanities. The discipline encompasses theatre as an artistic form and as a social and cultural institution. The study of theatre arts enables the individual to develop a creative imagination, an inquiring mind, a sense of social responsibility, professional discipline, a collaborative attitude, artistic standards and judgment, and a respect for the art form.

Objectives—The curriculum provides sound academic and practical training in theatre arts for undergraduate liberal arts students, for those wishing to pursue graduate studies in the field, and for those preparing to teach. It is designed to help students develop an appreciation for and ability to produce quality theatre.

Major Requirements

Th 1101—The Theatre Experience: An Introduction
 Th 1111—Fundamentals of Acting
 Th 1301—Fundamentals of Design
 Th 2101—Fundamentals of Directing
 Th 2301—Stagecraft
 Th 3101—World Theatre: History and Literature I
 Th 3102—World Theatre: History and Literature II
 Th 3201—Advanced Acting
 or Th 3202—Advanced Directing
 Th 4901—Senior Project

One course from:

Th 2111—Creative Drama with Children
 Th 2201—Voice and Movement
 Th 2211—Oral Interpretation
 Th 2221—Readers' Theatre
 Th 3001—Theatre Scene Painting Studio
 Th 3003—Stage Management
 Th 3201—Advanced Acting
 Th 3202—Advanced Directing
 Th 3301—Stage Lighting
 Th 3302—Stage Costuming
 Th 3303—Computer-Assisted Drawing
 Th 4301—Scenic Design

Six major production responsibilities (four of which must be in a faculty-directed production, all others must be pre-approved by faculty, and three must be in the junior and senior years).

A portfolio review in the third year.

At least one para-programmatic theatre experience that is arranged through a theatre arts faculty member and may take any number of forms, e.g., an internship with a theatre company, study abroad, or theatre tour to New York (Th 1040) or London (Th 1050).

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the Major Requirements if offset by an equivalent number of credits of A or B.

Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Minor Requirements

Th 1101—The Theatre Experience: An Introduction
 Th 1111—Fundamentals of Acting
 Th 1301—Fundamentals of Design
 Th 2101—Fundamentals of Directing
 Th 2301—Stagecraft

At least three courses from:

Th 2111—Creative Drama with Children
 Th 2201—Voice and Movement
 Th 2211—Oral Interpretation
 Th 2221—Readers' Theatre
 Th 3001—Theatre Scene Painting Studio
 Th 3003—Stage Management
 Th 3101—World Theatre: History and Literature I
 Th 3102—World Theatre: History and Literature II
 Th 3201—Advanced Acting
 or Th 3202—Advanced Directing
 Th 3301—Stage Lighting
 Th 3302—Stage Costuming
 Th 3303—Computer-Assisted Drawing
 Th 4301—Scenic Design

Three major production responsibilities (at least one of which must be in a faculty-directed production and at least two to be completed in the junior and senior years).

Up to 4 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.

Required courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Teacher Preparation Requirements

Students seeking teaching licensure in dance and theatre arts K–12 should refer to the Education, Secondary (SeEd) section of this catalog.

Division Structure and Course Descriptions

Course Descriptions

Th 1040. Backstage on Broadway. (1 cr [max 4 cr]; prereq #; offered when feasible; S-N only; fall, spring)
Supervised field trip to New York; attending selected professional theatre productions; backstage tours; discussions with theatre professionals.

Th 1050. London Theatre Tour. (1 cr [max 4 cr]; prereq #; offered when feasible; S-N only; fall, spring)
Supervised field trip to London, England; attending selected professional theatre productions; backstage tours; discussions with theatre professionals.

Th 1060. Production Experience. (1 cr [max 8 cr]; prereq #; S-N only; fall, spring, every year)
Participation in some aspect of theatre production other than performing (e.g., scenery, props, costumes, lighting).

Th 1070. Performance Experience. (ArtP; 1 cr [max 8 cr]; prereq #; S-N only; fall, spring, every year)
Participation in theatrical production as a performer.

Th 1101. The Theatre Experience: An Introduction. (FA; 4 cr; practicum required two hours per week, selected from M-Th from 2:00-5:30 p.m.; fall, every year)
Fundamental examination and practical application of the theory, history, and practice of theatrical performance as a reflection of society. Focus is on the theatre event as a collaborative effort and transitory art form. Practicum required two hours per week, selected from M–Th from 2:00–5:30 p.m. (lect, 2 hrs practicum).

Th 1111. Fundamentals of Acting. (ArtP; 4 cr; prereq 1101, theatre arts major or minor or #; spring, every year)
Approaches characterization from a physical and psychological view. Focus is on use of imagination, text analysis, body and voice to develop characters from modern realistic dramatic literature.

Th 1301. Fundamentals of Design. (ArtP; 4 cr; fall, every year)
Problem-solving approach to elements, principles, and functions of design; their place in the theatre and elsewhere. (3 hrs lect, 2 hrs studio).

Th 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Th 2101. Fundamentals of Directing. (ArtP; 4 cr; prereq 1111, theatre arts major or minor or #; spring, every year)
Introduces the practical components of the director as artist, teacher, and collaborator. Focus is on the craft of directing modern realistic dramatic literature through text analysis, communication of concepts, and stylistic techniques.

Th 2111. Creative Drama with Children. (ArtP; 4 cr; prereq 1101 or theatre or elem ed major or #; offered when feasible; fall)
Development of classroom skills in the use of dramatic techniques to teach a broad range of subjects to children. Exercises, presentations, and experiential learning techniques are modeled and practiced in class.

Th 2201. Voice and Movement. (ArtP; 4 cr; prereq 1111, theatre arts major or minor or #; spring, every year)
Explores the use of the voice and the body as means for expression in performance and everyday communication. Focus is on expansion and enhancement of vocal and physical skills through release of tension, posture, vocal exercises, and muscle extension.

Th 2211. Oral Interpretation. (ArtP; 4 cr; offered alternate yrs; fall, spring)
Introduces the study of literature through text analysis and performance. Focus is on the student's discovery of the aesthetic, communicative, and performative elements of a variety of personal narratives, prose, and poetry.

Th 2221. Readers' Theatre. (ArtP; 4 cr; prereq 2211; offered when feasible; fall)
Explores the theory and practice of adapting literature into group performance. Focus is on text analysis, script development, directing, and performing both dramatic and non-dramatic literary texts.

Th 2231. Playwriting. (ArtP; 4 cr; offered when feasible; fall)
Introduces the process for writing and revising an original play. Focus is on writing, revising, and presenting a short play, including idea generation, invention, drafting, and peer response.

Th 2301. Stagecraft. (ArtP; 4 cr; spring, every year)
Development of stagecraft from the Greeks to the present. Basic forms of stage scenery and their functions in the theatre. Tools, materials, and techniques employed in creating the visual environment of the stage. (3 hrs lect, 3 hrs practicum).

Th 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Th 3001. Theatre Scene Painting Studio. (FA; 4 cr; prereq #; spring, even years)
Instruction in a systematic approach to painting theatrical scenery. Traditional techniques and the tools and paints that have been developed to support those techniques.

Th 3003. Stage Management. (ArtP; 4 cr; prereq #; fall, spring)
Introduces the principles of theatrical stage management; explores the stage manager's functions and duties through all phases of the production process including pre-production, rehearsal, and performance.

Th 3101. World Theatre: History and Literature I. (FA; 4 cr; fall, every year)
Theatrical practice and dramatic literature from origins through late 17th century, tracing the roots leading to, and influences on, early modern European theatre practice and dramatic literature, as well as examining select Asian, African, and/or pre-Columbian American theatrical practice.

Th 3102. World Theatre: History and Literature II. (FA; 4 cr; spring)
Theatrical practice and dramatic literature from the late 17th century to the present, examining select Asian, African, and/or Western Hemisphere theatrical practice, as well as tracing the roots leading to, and influences on, current world theatre practice and dramatic literature.

Th 3201. Advanced Acting. (ArtP; 4 cr; prereq 1101, 1111, 2101; spring, every year)
Begins with advanced acting techniques based in psychological realism and moves to an exploration of select classical and non-realistic forms. Styles to be examined are chosen from a list, including Ancient Greek, Elizabethan, Comedy of Manners, Absurdism, Postmodernism, Musical Theatre, etc.

Th 3202. Advanced Directing. (ArtP; 4 cr; prereq 1101, 1111, 2101; fall, even years)

Begins with advanced directing techniques based in psychological realism and moves to an exploration of select classical and non-realistic forms. Styles to be examined are chosen from a list, including ancient Greek, Elizabethan, comedy of manners, absurdism, postmodernism, musical theatre, etc.

Th 3301. Stage Lighting. (ArtP; 4 cr; prereq 1301, 2301; spring, even years)

History and development of lighting for the stage. Theory and concepts of lighting as a visual art and its function in the theatre. Lighting design as a creative process and practical solution of lighting design problems. Lighting equipment and its use.

Th 3302. Stage Costuming. (FA; 4 cr; prereq 1301, 2301; spring, odd years)

History and development of stage costume. Theory and concepts of stage costuming as a visual art and its function in the theatre. Costume design as a creative process. Practical demonstrations of knowledge of design, history, and functions of stage costume.

Th 3303. Computer-Assisted Drawing. (ArtP; 4 cr; fall, every year)

Theory, concepts, and practice of using a computer as a drawing and drafting tool.

Th 3304. Art Direction for Film and Television. (FA; 4 cr; offered when feasible)

Introduction of art direction for film and television. The roles and duties of the production designer and art director for fictional film and television series.

Th 3451. Shakespeare's England. (Hum; 4 cr; =[Engl 3451]; offered when feasible; summer)

Same as Engl 3451. A study-abroad course in London and Stratford that concentrates on Shakespeare's plays in performance. Exploration of the relationship between plays as written scripts and the decisions directors and actors make when they stage productions. [Continuing Education course]

Th 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Th 4301. Scenic Design. (FA; 4 cr; prereq 1301, 2301; spring, odd years)

Designing scenery as an expressive environment for the theatre. Elements and functions of design and principles of composition. Problems in coordination and execution of design in the interpretation of dramatic literature using a variety of staging techniques. Study of various styles of historical and contemporary stage productions and theatre architecture through the writings and designs of such artists and theorists as Appia, Craig, Meyerhold, Jones, and Svoboda.

Th 4901. Senior Project. (2–4 cr [max 4 cr]; prereq theatre arts major, #; fall, spring, every year)

Culminating activity to demonstrate the student's competence in some area of theatre arts. Projects may be completed independently (e.g., a research paper, a solo acting performance) or as part of a group effort. Acting, scenery, lighting, costume design, playwriting, and theatre history are some areas in which the project may be undertaken.

Th 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Wellness and Sport Science (WSS)

This discipline is in the Division of Education.

Objectives—This curriculum helps students develop and maintain a healthy lifestyle and prepares them for a lifetime of service as sports management and coaching professionals.

The statement, “Varsity coaching requirements completed,” is added to the transcript of students who complete:

Coaching

WSS 1101—First Aid

WSS 2102—Human Anatomy

WSS 2111—Kinesiology

WSS 2112—Exercise Physiology

WSS 2121—Prevention and Care of Injuries

WSS 3201—Coaching Internship

One of the following courses:

WSS 2201—Baseball Coaching

WSS 2202—Basketball Coaching

WSS 2203—Football Coaching

WSS 2204—Softball Coaching

WSS 2205—Track and Field Coaching

WSS 2206—Volleyball Coaching

WSS 2208—Soccer Coaching

Sports Management

The area of sports management focuses on contemporary sport as a product of social, psychological, and economic phenomena. Coursework in this area of concentration addresses such topics as ethics and sport; psychology of sport performance; lifetime fitness and health; philosophy of sports; sport facilities and equipment; sport promotion; and sport injuries.

Suggested concentration requirements

(See page 59 for more information on majors and areas of concentration.)

WSS 1051—Fitness for Life

WSS 1052—Societal Issues in Wellness and Health

WSS 1101—First Aid

WSS 2102—Human Anatomy

WSS 2111—Kinesiology

WSS 2112—Exercise Physiology

WSS 2121—Prevention and Care of Injuries

Division Structure and Course Descriptions

- WSS 2401—Sociological Aspects of Sports
WSS 2402—Psychological Aspects of Sports
WSS 3210—Internship in Wellness and Sport Science
(min 4, max 8 cr)
WSS 4101—Planning and Programming of Athletic
Facilities
WSS 4102—Organization and Administration of
Athletics and Recreation
Mgmt 2101—Principles of Accounting I
Mgmt 3201—Marketing Principles and Strategies
Mgmt 3221—Management and Organization Theory
or Mgmt 3701—Organizational Behavior
Stat 1601—Introduction to Statistics
Spch 1052—Introduction to Public Speaking

Two of the following courses:

- WSS 2201—Baseball Coaching
WSS 2202—Basketball Coaching
WSS 2203—Football Coaching
WSS 2204—Softball Coaching
WSS 2205—Track and Field Coaching
WSS 2206—Volleyball Coaching
WSS 2208—Soccer Coaching

Note: Up to four credits of D or D+ may be used to meet the area of concentration requirements if offset by a sufficient number of higher grades to meet the minimum requirement of a cumulative GPA of 2.00 in all courses included in the area of concentration. The GPA includes all, and only, University of Minnesota course work. Grades of “F” are included in GPA calculation until they are replaced.

Course Descriptions

WSS 1051. Fitness for Life.

(2 cr; fall, spring, every year)

Factors associated with a positive lifestyle, assessment of each individual’s current wellness status, and development of a personal lifetime program for improving one’s quality of life.

WSS 1052. Societal Issues in Health and Wellness. (SS; 2 cr; fall, spring, every year)

A study of how perceptions of society’s health and wellness issues affect our individual health/fitness choices.

WSS 1101. First Aid.

(1 cr; fall, spring, every year)

Lectures, demonstrations, practical work in emergencies and first aid. Emphasis on accident prevention. National Safety Council first aid and CPR certification is awarded upon successful completion of the course.

WSS 1213. Golf.

(0.5 cr [max 1 cr]; S-N only; fall, every year)

Introductory instruction in the skills and techniques of golf.

WSS 1219. Strength Training.

(0.5 cr [max 1 cr]; S-N only; fall, spring, every year)

Introductory instruction in the skills and techniques of strength training.

WSS 1224. Wellness Skills: R.A.D.—Basic Rape Aggression

Defense (R.A.D.) System. (0.5 cr [max 1 cr]; S-N only; fall, spring, every year)

A comprehensive program of realistic, self-defense tactics and techniques for women. Includes awareness, prevention, risk reduction and avoidance, progressing to the basics of hands-on defense training. Utilizes nationally approved/recognized curriculum. [Continuing Education course]

WSS 1301. Beginning Karate. (0.5 cr [max 3 cr]; S-N or Aud, fall, spring, every year)

Terminology, fundamentals, basic techniques of blocking, punching and kicking; basic attack and defense strategies. [Continuing Education course]

WSS 1303. Advanced Karate. (0.5 cr [max 3 cr]; prereq 1301 or #; S-N or Aud, fall, spring, every year)

Continuation of 1301. Detailed instruction in authentic karate technique. Instructor sets groundwork as students begin training for first degree black belt. [Continuing Education course]

Varsity Athletics

All varsity athletics courses below carry 0.5 credit, are repeatable to a total of 2 credits, and are graded S-N only.

WSS 1401. Varsity Baseball. (M)

(0.5 cr [max 2 cr]; S-N only; spring, every year)

WSS 1402. Varsity Basketball.

(0.5 cr [max 2 cr]; S-N only; spring, every year)

WSS 1403. Varsity Cross Country. (W)

(0.5 cr [max 2 cr]; S-N only; fall, every year)

WSS 1404. Varsity Football. (M)

(0.5 cr [max 2 cr]; S-N only; fall, every year)

WSS 1405. Varsity Golf.

(0.5 cr [max 2 cr]; S-N only; fall, every year)

WSS 1406. Varsity Softball. (W; 0.5 cr [max 2 cr]; S-N only; spring, every year)

WSS 1407. Varsity Tennis.

(0.5 cr [max 2 cr]; S-N only; spring, every year)

WSS 1408. Varsity Track and Field.

(0.5 cr [max 2 cr]; S-N only; spring, every year)

WSS 1410. Varsity Volleyball. (W)

(0.5 cr [max 2 cr]; S-N only; fall, every year)

WSS 1411. Varsity Soccer.

(0.5 cr [max 2 cr]; S-N only; fall, every year)

WSS 1412. Varsity Swimming & Diving. (W)

(0.5 cr [max 2 cr]; S-N only; fall, every year)

WSS 1993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

WSS 2102. Human Anatomy. (3 cr; =[Biol 2102]; prereq soph; fall, every year)

Same as Biol 2102. Structure of human systems at their organ and cellular levels. (one 100-min lect, one 120-min lab)

WSS 2111. Kinesiology. (Sci; 2 cr; prereq 2102; fall, every year)

Scientific principles of movement and tissue responses to force; analysis of basic movement in sports and other physical activities.

WSS 2112. Exercise Physiology. (2 cr; fall, every year)

Human physiological adaptations resulting from activity/exercise.

WSS 2121. Prevention and Care of Injuries. (4 cr; prereq 2111; spring, every year)

Introduction to safety measures, care, prevention, and rehabilitation of injuries in sports and other physical activities. (three 65-min lect, one 65-min lab)

WSS 2201. Baseball Coaching. (2 cr; spring, every year)

History, psychology, and theory of the game, techniques of coaching each position, rules, batting, practice and game organization, strategy, officiating.

WSS 2202. Basketball Coaching. (2 cr; fall, every year)

History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules, and techniques of coaching each position.

WSS 2203. Football Coaching. (2 cr; fall, every year)

History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules, techniques of coaching each position.

WSS 2204. Softball Coaching. (2 cr; spring, even years)

History, psychology, and theory of the game, techniques of coaching each position, rules, batting, practice and game organization, strategy, officiating.

WSS 2205. Track and Field Coaching. (2 cr; spring, every year)

History, psychology, and theory of the sports, techniques for all track and field events, methods of coaching, practice and meet organization, strategy, rules, officiating.

WSS 2206. Volleyball Coaching. (2 cr; fall, every year)

History, psychology, and theory of the game, offensive and defensive formations, strategy, practice and game organization, officiating, rules.

WSS 2208. Soccer Coaching. (2 cr; fall, even years)

History, psychology, and theory of the sport, individual techniques, practice and game organization, officiating, rules and strategies.

WSS 2311. Sports Officiating. (2 cr; offered when feasible; summer)

Knowledge of the rules, techniques, and mechanics for officiating basketball, baseball, and softball at the high school level. [Continuing Education course]

WSS 2321. Group Fitness Instructor Training. (2 cr; S-N only; offered when feasible; fall, spring)

Study of the principles and foundation of group exercise leadership and instruction and the development and progression of all components of an exercise program including movements, choreography, health screening and assessments, and prevention of injuries common to an exercise program. Preparation for national certification examinations in aerobics instruction. [Continuing Education course]

WSS 2324. Advanced Rape Aggression Defense System (R.A.D.). (1 cr; prereq 1224; S-N only; fall, every year)

Builds on self-defense techniques and awareness, prevention and avoidance strategies learned in basic R.A.D., adding defenses against the edged weapon and firearm. Covers more prone defense strategies, multiple subject encounters, and low and diffused light simulation exercises. [Continuing Education course]

WSS 2331. Personal Training Preparation. (2 cr; S-N only; offered when feasible; fall, spring)

Concepts, theory, practice, and research in personal training and conditioning. Basic anatomy and physiology, principles of strength training, overview of training equipment, fitness assessments, designing individual

exercise programs, legal liabilities, national certifications, and review of research. Preparation for national certification examinations in the areas of personal training and strength conditioning. [Continuing Education course]

WSS 2332. Legal Aspects of Physical Education and Sport. (SS; 3 cr; offered when feasible; summer)

Introduction to basic legal and safety aspects of physical activity, recreation, and sport. Emphasis on legal liability, risk management, and violence in sports. Intended for those who organize and manage leisure and sport activities or leagues for youth, high school, and college programs. [Continuing Education course]

WSS 2401. Sociological Aspects of Sports. (SS; 2 cr; spring, every year)

Sociological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

WSS 2402. Psychological Aspects of Sports. (SS; 2 cr; prereq 2401; spring, every year)

Psychological aspects of physical education, sports, and recreation and the implications this knowledge has for effective teaching, coaching, and athletic training.

WSS 2993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

WSS 3201. Coaching Internship. (1 cr; prereq #; S-N only; fall, spring, every year)

Supervised field experience in coaching, consisting of no fewer than 40 hours.

WSS 3210. Internship in Wellness and Sport Science. (1–12 cr [max 24 cr]; prereq #; S-N only; fall, spring, every year)

An educational experience in a work environment providing field applications for the student's theoretical classroom learning experiences. Learning contract approved by instructor prior to registration.

WSS 3993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

WSS 4101. Planning and Programming of Athletic Facilities. (SS; 4 cr; spring, every year)

Theories/techniques in administration/management of sport enterprises including the steps in planning/building facilities for athletics, physical education, and sport for college, professional, and public use.

WSS 4102. Organization and Administration of Athletics and Recreation. (SS; 4 cr; prereq 4101; fall, every year)

Comprehensive analysis of organization and management of athletics and recreation.

WSS 4993. Directed Study. (1–5 cr [max 10 cr]; prereq approved directed study form; fall, spring, every year)

An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

Women's Studies (WoSt)

This is an interdisciplinary program housed in the Division of the Social Sciences. The program is administered by the coordinator of women's studies who is a faculty member of any of the four divisions.

Objectives—To explore the history, position, and roles of women as well as the attitudes concerning them and to acquaint students with the changing determinants of women's situations.

Major Requirements

A total of 40 credits is required for this major. Some of the courses required for the major carry prerequisites. Students interested in the major should meet with the coordinator of women's studies before the end of their junior year.

Required courses:

WoSt 1101—Introduction to Women's Studies
 Engl 2031—Gender in Literature and Culture
 Soc 3121—Sociology of Gender
 WoSt 4901—Assessment of Student Learning in Women's Studies
 WoSt 4993—Directed Study

In addition, one course from the following is required:

Anth/Soc 3602—Women in Latin America
 Anth/Soc 3452—American Indian Women
 Psy 3051—The Psychology of women and Gender
 Soc 2101—Systems of Oppression
 Soc 3252—Women in Muslim Society

Depending on the number of credits for WoSt 4993, 18–22 additional credits from courses listed below are to be selected. These courses must come from at least three different disciplines. A course not listed may be applied to the 18–22 credit requirement with the consent of the instructor and women's studies major adviser. Any directed study course for which an instructor is available is acceptable provided the subject matter is appropriate. Appropriate courses incorporate women's studies theories and/or methodologies. With the approval of the coordinator of women's studies, up to 8 credits can be supplied by appropriate internship experiences.

Students develop a coherent program of study in consultation with their major adviser. Advisers are usually faculty with backgrounds or specialties related to women's studies. When the program and plan are approved by the adviser, they are forwarded to the coordinator of women's studies.

No grades below C- are allowed. A minimum GPA of 2.00 is required in the major in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Minor Requirements

WoSt 1101—Introduction to Women's Studies

An additional 24 credits from the courses listed below are to be selected from at least three different disciplines.

No grades below C- are allowed. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota course work. Grades of "F" are included in GPA calculation until they are replaced.

Course Descriptions

Anth 2501. Medical Anthropology—An Overview. (SS; 4 cr; prereq 1111 or Soc 1101 or #; spring, even years)

Utilizes an ecological perspective to explore cultural understandings of health and illness in a variety of societies in North America and abroad. Examines the effects of cultural and physical adaptation, nutrition, culture contact, and modernization on the health and well being of people.

Anth 3452. American Indian Women. (HDiv; 4 cr; =[Soc 3452]; prereq 1111 or Soc 1101 or #; fall, every year)

Same as Soc 3452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Anth 3602. Women in Latin America. (IP; 4 cr; =[Soc 3602]; prereq 1111 or Soc 1101 or #; fall, odd years)

Same as Soc 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women's movements, economic and political conditions, religion and women, etc.

Arth 3281. Women and Art. (FA; 4 cr; prereq any 1xxx Arth course or jr status or #; fall, odd years)

A historical survey of women's roles as creators and patrons of the visual arts in Western European and American societies, from antiquity to the present.

Arts 3006. Media Studies: Feminist Art: A Studio Perspective. (ArtP; 3 cr [max 9 cr]; prereq major or minor or #; fall, spring)

The impact of the women's movement of the 1970s on contemporary art. Exploration of the notion of "women's work" as a studio practice; the materials, methods, and issues that define feminist work.

Econ 3351. Globalization: Examining India's Social and Economic Development. (IP; 4 cr; =[Mgmt 3351]; prereq 1111 or 1112 or #; offered when feasible; spring)

Same as Mgmt 3351. Observe and study the impact of globalization on the Indian economy. Examine the growing class divide between the middle and upper middle class and the lower class. Study the problem of mass poverty in India and its various ramifications such as child labor, lack of education and basic health care, and the inherent gender bias. Examine sustainable grass roots efforts to combat some of these problems. [Continuing Education course]

Econ 4101. Labor Economics I. (HDiv; 2 cr; prereq 3201 or #; fall, every year)

Wage and employment determination. Distribution of earnings and earnings inequality by race and sex. Labor supply applications.

Engl 2031. Gender in Literature and Culture. (HDiv; 4 cr; prereq 1011 or equiv; offered when feasible)

Introduction to literary and cultural representations of gender. Emphasis on the intersections between power and the social relations of gender, race, class, and sexuality.

Engl 3153. Gothic Literature. (Hum; 4 cr; prereq 1131, two from 2201, 2202, 2211, 2212; fall)

The cultural origins of gothic literature in tension with the neoclassical values of 18th-century Britain and its persistent influence over the next two centuries (including its relationship to modern horror fiction and film). Emphasis on the ways gothic tales encode cultural anxieties about gender, class, and power.

Fren 1304. French Women Authors in Translation. (IP; 4 cr; =[Hum 1304]; prereq #; fall, odd years)

Same as Hum 1304. French women's movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Taught in English, but all papers and some reading/discussion will be in French. Meets Modern requirement in French major.

Ger 3501. Women's Issues in Contemporary German Culture.

(IP; 4 cr; =[Hum 3501]; prereq 3011 or #; offered when feasible; spring)

Same as Hum 3501. Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Hist 1402. Women in U.S. History. (HDiv; 4 cr; offered when feasible; fall, spring)

Themes and methods in the history of women in the United States. Topics may include women in the colonial era; American Indian, African American, and immigrant women; sex roles; women and work, family, politics, the law, and religion.

Hist 3001. Families Through the Prism of Memory, Genealogy, and History. (Hist; 4 cr; fall, every year)

Historical and genealogical approach to the study of family.

Hist 3704. Women in the Middle Ages. (SS; 4 cr; offered when feasible; fall, spring)

Analysis of the history of European women and gender systems as constructed during the Middle Ages (c. 500–1500).

Hist 3706. Women in Early Modern Europe. (SS; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)

Examination of lives of women in Europe from about 1350 to 1750.

Hist 3707. Gender in East Asia. (HDiv; 4 cr; spring, odd years)

Study of the changing perceptions of gender in East Asia from its earliest written records until the present. Special emphasis on the changing role of women in East Asia. Exploration of the way gendered discourse affected broader understandings of society, politics, the economy, and culture. Background in East Asian history, while preferred, is not required.

Hist 3708. European Women's History, 1600–Present. (IP; 4 cr; prereq 1101 or 1102 or 1301, WoSt 1101; offered when feasible; fall, spring)

Examination of the forces that have shaped the lives of European women since 1600 and analysis of how changes in the structures of power and authority—religious, political, social, familial—affected the choices available to them. Students engage critically with the question of what bringing gender to the forefront of the study of European history has to teach them. Students gain an understanding of many of the underpinnings of American society, which has been deeply affected by European patterns of thought about women and their place in the world.

Hum 1304. French Women Authors in Translation. (IP; 4 cr; =[Fren 1304]; fall, odd years)

Same as Fren 1304. French women's movements during the 20th century, the historical relationship of gender and class, and the lives of women from various ethnic backgrounds in France; the history of French women authors in a global context. Students who wish to apply this course to their French major must enroll in the French equivalent of this course, Fren 1304.

Hum 3501. Women's Issues in Contemporary German Culture.

(IP; 4 cr; =[Ger 3501]; offered when feasible; spring)

Same as Ger 3501. Focus is on the German women's movement during the 20th century, historical relationship of gender and class, and lives of women from various ethnic backgrounds in Germany and Austria. Short stories, essays, and poems document the evolution of feminist literary theory in German studies. Readings and lectures are in English. Final papers either in German (for German credit) or English (for Humanities credit).

Mgmt 3351. Globalization: Examining India's Social and Economic Development. (IP; 4 cr; =[Econ 3351]; prereq Econ 1111 or Econ 1112 or #; offered when feasible; spring)

Same as Econ 3351. Observe and study the impact of globalization on the Indian economy. Examine the growing class divide between the middle and upper middle class and the lower class. Study the problem of mass poverty in India and its various ramifications such as child labor, lack of education and basic health care, and the inherent gender bias. Examine sustainable grass roots efforts to combat some of these problems. [Continuing Education course]

Phil 2112. Professional Ethics. (E/CR; 4 cr; fall, every year)

A critical examination of moral issues that arise in a person's professional life. Possible topics include affirmative action, autonomy in the workplace, ethical issues in advertising, corporate responsibility, coercive wage offers, distributive justice, and sexual harassment. Issues concerning race, gender, and women are included in selected modules.

Phil 2141. Analytic Feminism. (Hum; 4 cr; offered when feasible; spring)

Applies an analytical approach to issues discussed in feminist writings. A mixture of lecture and discussion. Requirements include essay exams, papers, attendance, service-learning projects with related reflective journals, and class participation.

Pol 4503. Women in Politics Worldwide. (IP; 4 cr; prereq 1201, 2101 or #; spring, even years)

Examines the ways gender influences politics throughout the world. Topics covered include: the "gender gap" and voter turnout, women's involvement in linkage

Division Structure and Course Descriptions

organizations, such as parties and interest groups, and finally policy outcomes regarding women in different kinds of political systems.

Psy 1071. Human Sexuality. (SS; 4 cr; fall, every year)
Survey of aspects of human sexuality, including intimacy and communication; male and female anatomy, physiology, and response; development of identity, sex role, and gender orientation; varieties of sexual expression; pregnancy and child birth; contraception and disease prevention; sexual coercion and abuse; sexual dysfunctions and their treatment.

Psy 3051. The Psychology of Women and Gender. (HDiv; 4 cr; prereq 1051 or #; spring, every year)
Exploration of the interactive biological, psychological, and socio-cultural processes that shape the lives of women and the experience of gender. Topics include: the psychobiology of sex; the social construction of sex and gender; socialization and development; media representations; identity and sexuality; language and communication; motivation and personality; relationships; work and family lives; mental and physical health; mid- and later life development; victimization; therapy; intersections of race, class, and gender; and feminist approaches to teaching, learning, and knowing.

Psy 3221. Behavioral Biology of Women. (Sci; 2 cr; prereq 3211 or Biol 2111 or #; offered when feasible; fall, spring)
Exploration of proximate and ultimate influences on female behavior in human and nonhuman species. Sexual differentiation, gender differences in cognition, biological basis of sexual orientation, female sexual selection, and dominance.

Psy 4896. Field Experiences in Psychology. (SS; 1-4 cr [max 4 cr]; prereq #, which normally requires 4101 for work in psychiatric settings, 3302, 3401 or 3402 for work in schools; SS [if taken for 2 or more cr]; only 4 cr may be applied to the BA or the Psy major; S-N only; fall, spring, every year)
Individually arranged, supervised observation of and assistance with activities of professional psychologists in schools, clinics, hospitals, and other field settings.

Soc 2101. Systems of Oppression. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)
Patterns of group dominance, exploitation, and hate in the United States and globally. Emphasis on sexism, racism, and classism with some attention to other systems of oppression such as heterosexism, ageism, and ableism.

Soc 3121. Sociology of Gender. (HDiv; 4 cr; prereq 1101 or Anth 1111 or #; fall, every year)
An introduction to the sociological study of gender. Focus on gender difference and gender inequality. Analysis of the changing roles, opportunities, and expectations of women and men as their societies (and subsequently, gender relations and power) undergo change in today's world. Theoretical overview and an examination of how gender affects everyday experiences.

Soc 3252. Women in Muslim Society. (IP; 4 cr; prereq 1101 or Anth 1111; spring)
The cultures and social statuses of women in several Muslim countries are examined and placed in their political, economic, and religious contexts.

Soc 3452. American Indian Women. (HDiv; 4 cr; =[Anth 3452]; prereq 1101 or Anth 1111 or #; fall, every year)
Same as Anth 3452. The role of Indian and mixed-blood women in a variety of North American Indian cultures, both traditional and contemporary, using ethnography, autobiography, life history, biography, and fiction. The interaction of Indian women and their cultures with the colonizing cultures of Western Europe and the United States.

Soc 3602. Women in Latin America. (IP; 4 cr; =[Anth 3602]; prereq 1101 or Anth 1111 or #; fall, odd years)
Same as Anth 3602. Study of the social statuses of women in Latin American countries and the cultural norms influencing these statuses. Topics include class differences and the varied interests of women of different classes and ethnicities, women's movements, economic and political conditions, religion and women, etc.

WoSt 1101. Introduction to Women's Studies. (HDiv; 4 cr; A-F or Aud, fall, every year)
Overview of gender and feminist theories, history of the women's movement, and the impact of gender in everyday life.

WoSt 3993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.

WoSt 4101. Feminist Theory. (HDiv; 4 cr; prereq 1101 or 1111 or #; offered when feasible; fall, spring)
Engages students in a critical examination of several influential works participating in the elaboration of feminist theories. Readings and discussions focus on a series of themes and issues—gender, sexuality, race, class, language, bodies, etc.—and how these issues bear upon society.

WoSt 4901. Assessment of Student Learning in Women's Studies. (1 cr; prereq completion of 32 cr in women's studies; S-N only; fall, spring, every year)
Requires a portfolio collecting syllabi and documents from courses or internships in women's studies; a paper reviewing the UMM women's studies program; participation in a panel discussion. Students can work with any faculty teaching women's studies courses.

WoSt 4993. Directed Study. (1-5 or [max 10 cr]; prereq approved directed study form; fall, spring, every year)
An on- or off-campus learning experience individually arranged between a student and a faculty member for academic credit in areas not covered in the regular curriculum.



**This is the Preparation for Professional Degrees in Other Colleges,
Administration and Faculty, Campus Directory, and Map sections of the
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Undergraduate liberal arts coursework is required for admission to professional schools in fields such as engineering, pharmacy, law, and medicine. Students on the Morris campus have the opportunity to complete a broad range of liberal arts courses that prepares them to apply for admission at the bachelor's degree level to various professional schools at the University of Minnesota and elsewhere.

UMM advisers work with students on a regular basis to plan a schedule adapted to the student's academic interests. The Academic Advising Office provides detailed guides to preparatory coursework at UMM that is recommended by the University of Minnesota professional schools. In addition, professional school catalogs, the best source of information about requirements, are available online at www.catalogs.umn.edu.

It is recommended that students who intend to apply for professional programs at the bachelor's degree level complete the UMM degree requirements. Many students change their educational objectives during the course of study in preparation for a professional school, in which case the credits earned can be applied toward UMM graduation requirements. Admission to professional programs is highly competitive and applicants may be competing against others who have already earned bachelor's degrees or have at least three years of preparation before they apply. Simply completing the minimum preparation requirements does not guarantee admission.

Students are urged to consult the catalog of the professional school they plan to attend for information about the admission requirements, application deadlines, and procedures. Most professional schools require a minimum GPA, a satisfactory score on a standardized aptitude test, and letters of recommendation.

UMM offers preparatory coursework, either as the full program of the bachelor of arts degree or as preliminary courses, for the following professional schools of the University:

- Dentistry
- Engineering
- Medicine
- Nursing
- Pharmacy
- Physical Therapy
- Veterinary Medicine

Dentistry

Students planning to earn the doctor of dental surgery degree at the School of Dentistry on the Twin Cities campus must complete a minimum of 87 semester credits in a science-based liberal arts curriculum emphasizing biology, chemistry, mathematics, and physics for admission to the professional program. The majority of students entering the program have completed four or more years of college and a bachelor's degree. The minimum GPA required for admission is 2.70, however, much higher overall and science GPAs are usually necessary to be considered competitive.

Students seeking admission to the School of Dentistry must apply through the American Association of Dental Schools Application Service by December 1. Information and registration for the Dental Admission Test (DAT) are available online at www.ada.org. Scores from the DAT are required as part of the application and must be submitted to the School of Dentistry by December 1 of the academic year preceding the fall term in which enrollment is sought. The supplemental School of Dentistry application deadline is January 1, however, students are encouraged to apply early.

Engineering

Students at UMM can pursue the study of engineering through any of three established paths. A dual-degree program, formally arranged with the University of Minnesota, Twin Cities (UMTC), provides the opportunity for students to earn a bachelor of arts from UMM and a bachelor of science degree from the UMTC. Secondly, in the pre-engineering option, students can attend UMM for two years, taking the mathematics, chemistry, physics, computer science, and composition courses required in engineering programs and then transfer to the UMTC. Finally, students considering an advanced degree in engineering can complete a bachelor of arts degree in one of the sciences at UMM and then enroll in a graduate engineering program at the UMTC or elsewhere. Each of these options is described below.

Dual-Degree Program

Students in the dual-degree program take courses for three years at UMM and two or three years from the Institute of Technology (IT) on the Twin Cities campus. While at UMM, students can major in mathematics,

physics, chemistry, or statistics; choose electives; and complete the UMM general education requirements. Students then transfer to IT, provided they meet the GPA required for transfer (which currently ranges from 2.00 to 2.80 depending on the specific engineering program). IT engineering programs include aerospace, biomedical, biosystems and agricultural, chemical, civil, computer, electrical, geological, materials science, and mechanical. Each student should work closely with a faculty adviser to identify which combination of UMM major and IT engineering program fit together best to match the student's interests and specific program requirements. Students who successfully complete the program earn a bachelor of arts degree from UMM and a bachelor of science degree from IT.

Pre-Engineering Program

The pre-engineering program is a well-articulated arrangement with the University of Minnesota Institute of Technology in which students attend UMM for two years, taking the core mathematics, physics, chemistry, computer science, and composition courses which are the standard preparatory courses for the IT engineering programs. Since the course requirements do vary slightly from one engineering program to another, each student should work closely with a faculty adviser in the selection of both required and elective courses. (Many students choose electives that satisfy the general education requirements of both UMM and IT so that they have the option of graduating from UMM rather than transferring.) After two years at UMM, students can transfer to IT, provided they meet the GPA required for transfer (which currently ranges from 2.00 to 2.80 depending on the specific engineering program.) Students can then complete a bachelor of science in engineering within two to three years.

B.A./Graduate Degree Program

A bachelor of arts degree in one of the basic sciences is excellent preparation for a graduate degree in engineering. It is not necessary to have an undergraduate degree in engineering to enroll in an engineering graduate program either at the University of Minnesota or elsewhere. At the University, a student with a bachelor of arts in one of the basic sciences can usually complete a master of science in engineering in two years. A doctorate degree takes several more years.

Law

A bachelor's degree is required for admission to law school, but no specific preparatory program or major is prescribed. Students are advised to plan a bachelor's program that provides a broad background in the humanities, mathematics, sciences, and social sciences. Students should select an academic major based on their special area of interest and abilities to ensure a depth of knowledge in one field. Students are encouraged to take courses that require independent thought and writing, including work in other languages, and to develop, through coursework or activities, their skills in oral and written expression.

The University of Minnesota Law School on the Twin Cities campus makes the following statement about its admission policy: "Admission is limited to applicants who demonstrate potential for success in law study and in the profession." A strong scholastic record and scores from the Law School Admission Test (LSAT) are key factors for admission. Various factors such as work experience; career goals; positions of leadership; racial, ethnic, or economic backgrounds; and public service are also considered.

The University of Minnesota Law School participates in the Law School Data Assembly Service (LSDAS), which provides a summary of the academic work of applicants, copies of their college transcripts, and their LSAT scores. Applicants are required to submit the LSAT/LSDAS registration form and to have their college transcripts sent directly to the service.

It is preferred that applicants register with the LSDAS and take the LSAT at least six weeks before the March 1 application deadline. Normally applicants take the LSAT in December of their senior year in college. The LSAT/LSDAS Information Bulletin and application are available in Student Counseling.

Medicine

Students planning to enter a school of medicine must complete a bachelor's degree with a well-balanced liberal arts program before admission. Required premedical courses in the bachelor's degree program include composition, biology, chemistry, mathematics, and physics. The three Minnesota medical schools are the University of Minnesota Medical School in Minneapolis, the University of Minnesota Medical School

Duluth, and the Mayo Medical School in Rochester. Requirements of the various medical schools vary and change frequently; therefore, students should contact each individual school that interests them. First-year UMM premedical students should contact the UMM pre-medicine advising committee and work closely with their faculty adviser.

All three Minnesota medical schools participate in the American College Application Service (AMCAS). The AMCAS application should be filed as early as the Web-based application becomes available, usually in early May. Premedical students should begin application procedures for medical school during their junior year. Supplemental application materials may be required, depending on the individual school, so students should carefully review the instructions in the application packet.

Students using AMCAS are required to take the Medical College Admission Test (MCAT). This test is also required or strongly recommended by most medical schools in the United States. The MCAT is administered at UMM and it is recommended that students take the MCAT in the spring of their junior year. Applications for AMCAS and the Medical School Admission Test Bulletin of Information, which includes MCAT test dates and applications, are available at Student Counseling.

Nursing

Students planning to transfer into a bachelor of science in nursing (BSN) program at any of the several universities in Minnesota that offer the degree need to first complete required courses in biology, chemistry, composition, nutrition, psychology, and statistics. Because these requirements vary, it is important for students to consult early with the admissions offices at the specific schools to which they plan to apply. The Morris community does provide numerous opportunities to gain work experience in the healthcare field and this may be important in the admissions process. The length of BSN programs varies from two to three years following completion of the prerequisite coursework. Because admission to these programs is competitive, students are encouraged to apply to multiple programs.

Students may also consider finishing their bachelor of arts degree in a non-nursing major at UMM, then applying to the master of nursing program at the University of Minnesota,

Twin Cities. This 16-month program gives the student eligibility to become a licensed registered nurse (RN). Successful applicants have completed prerequisite courses in chemistry, human anatomy and physiology, microbiology, abnormal psychology, and statistics, combined with a strong liberal arts background. Admission is highly competitive. For more information, students should contact the University of Minnesota School of Nursing.

Pharmacy

Students planning to apply to the University of Minnesota College of Pharmacy (Twin Cities or Duluth) must complete specified general education coursework, including composition, biology, chemistry, mathematics, physics, economics, psychology, and sociology to be eligible for admission. The admission process is selective. A bachelor's degree is preferred (fewer than 30 percent of accepted students do not have a degree). Applicants who have a Pharmacy College Application Service (PharmCAS) GPA of 3.00, or 3.20 over the most recent 60 semester credits (see www.pharmacas.org), are eligible to apply for admission. The criteria used to evaluate and select applicants for admission include the student's educational background and GPA, PCAT scores, diversity factors, work experience, community service, oral and written communication skills, and letters of recommendation. Information and registration for the Pharmacy College Admission Test (PCAT) and scored writing subtest are available online at www.pcatweb.info.

Applicants to the University of Minnesota College of Pharmacy must apply through the national application service, PharmCAS. Supplemental application and recommendations are also required; further information can be found on the College of Pharmacy Web site at www.pharmacy.umn.edu. Highly qualified candidates are then invited to campus for an interview prior to the admission decision. Application deadlines are September 1 (early decision, which requires a GPA of 3.60) and February 1 for the following fall. The College of Pharmacy has initiated rolling admissions. Under rolling admissions, applicants are reviewed in the order received; positions can become limited before the February 1 deadline.

Physical Therapy

Students must complete a bachelor's degree (no major preferred) to be eligible for admission to the graduate physical therapy program at the University of Minnesota, Twin Cities. Admission is very competitive; a minimum GPA of 3.0 is required. While at UMM, students are encouraged to complete a strong liberal arts program. Required undergraduate coursework includes biology courses with labs; anatomy; human physiology; inorganic chemistry with labs; physics; general psychology; abnormal psychology; calculus and statistics (including ANOVA and regression analysis). All courses must be taken for a letter grade. Students are also expected to be skillful with word processing applications and spreadsheets. Exposure to a physical therapy setting through volunteer work or employment (minimum 100 hours) is an important prerequisite. For more information, see www.med.umn.edu/physther.home.html.

online at <https://www.vmcas.org/>. The deadline for submitting the VMCAS application is October 1. Three letters of evaluation must also be submitted to VMCAS. The Graduate Record Examination (GRE) is also required for admission. Students normally take the GRE in October of the year that they are submitting their application to veterinary school. For more information or application materials, contact the Office of Student Affairs and Admissions, College of Veterinary Medicine.

Veterinary Medicine

Admission to the College of Veterinary Medicine is highly competitive. Approximately 90 students are admitted each fall semester and are selected through an evaluation process including: 1) academic measures; 2) non-academic measures; and 3) behavioral interview. First priority is given to Minnesota residents and to students from states and provinces where reciprocity applies to the veterinary program (North Dakota, South Dakota, and Manitoba, Canada).

To qualify for admission to the College of Veterinary Medicine, students must complete required courses including composition, biology, chemistry, mathematics, physics, and a strong liberal arts background. Most students complete their bachelor's degree before entering veterinary school but may seek admission during the academic year in which their pre-veterinary requirements are complete. Consultation with a UMM adviser is essential for proper course planning. The University of Minnesota is a part of the national application process through the Veterinary Medical College Application Service (VMCAS). Instructions and applications for VMCAS are available



Listing current as of January 2007

University Regents

Anthony Baraga, Congressional District 8, *Chair*
 Patricia Simmons, Congressional District 1, *Vice Chair*
 Clyde Allen, Jr., Congressional District 7
 Peter Bell, Congressional District 5
 Frank Berman, At Large
 Dallas Bohnsack, Congressional District 2
 John Frobenius, Congressional District 6
 Steven Hunter, At Large
 David Larson, Congressional District 3
 Cynthia Leshner, At Large
 David Metzgen, Congressional District 4
 Lakeesha Ransom, At Large

University Administrators

Robert H. Bruininks, President
 E. Thomas Sullivan, Senior Vice President for Academic Affairs and Provost
 Frank B. Cerra, Senior Vice President for Health Sciences
 Robert J. Jones, Senior Vice President for System Academic Administration
 Nancy "Rusty" Barcelo, Vice President and Vice Provost for Equity and Diversity
 Kathryn Brown, Vice President and Chief of Staff
 Carol Carrier, Vice President for Human Resources
 Steve Cawley, Vice President and Chief Information Officer
 Karen L. Himle, Vice President for University Relations
 R. Timothy Mulcahy, Vice President for Research
 Charles Muscoplat, Vice President for Statewide Strategic Resource Development
 Kathleen O'Brien, Vice President for University Services
 Richard Pfutzenreuter, Vice President and Chief Financial Officer
 Mark B. Rotenberg, General Counsel

Morris Campus Administrative Officers

Jacqueline Johnson (2006), Chancellor; B.A., Macalester College; M.S., Ph.D., Purdue University
 Judith Kuechle (1988), Interim Vice Chancellor for Academic Affairs and Dean; B.S., St. Cloud State University; M.S., Mankato State University; Ph.D., University of Minnesota, Twin Cities
 Sandra K. Olson-Loy (1985), Vice Chancellor for Student Affairs; B.S., Moorhead State University; M.A., University of Wisconsin, Madison

Gary Strei (1973), Senior Administrative Director for Finance and Administration; A.D., Alexandria Technical College
 Madeline Maxeiner (1976), Associate Vice Chancellor for External Relations and Director of Fund Development; B.A., University of Minnesota, Morris; M.A., Saint Mary's University of Minnesota
 Lowell Rasmussen (1993), Associate Vice Chancellor for Physical Plant and Master Planning; B.S., M.S., Mankato State University
 James Morales (2004), Associate Vice Chancellor for Enrollment; B.A., University of Utah; Ed.D., University of Minnesota
 Judith Kuechle (1988), Chair, Division of Education; B.S., St. Cloud State University; M.S., Mankato State University; Ph.D., University of Minnesota, Twin Cities
 Jennifred Nellis (1977), Chair, Division of the Humanities; B.F.A., University of Nebraska; M.F.A., University of Iowa
 Michael Korth (1984), Chair, Division of Science and Mathematics; B.A., University of Minnesota, Morris; M.S., Ph.D., University of Maryland
 Jooinn Lee (1961), Chair, Division of the Social Sciences; B.A., Yonsei University, Korea; M.A., University of North Dakota; Ph.D., University of Illinois

UMM Alumni Association Board of Directors

Juli Yauch Wagner, '92, Eagan, President
 Kenneth Traxler, '89, Bemidji, Past President
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 Kathi Hedstrom, '82, Elk River
 James Mahoney, '85, Morris
 Jessica Phillips, '97, Minneapolis
 Tony Schuster, '02, Mound
 Brian Ulrich, '98, Hopkins

Administrative and Professional Staff

Ferolyn Angell (1990), Coordinator, Academic Assistance; B.A., University of California, Berkeley; M.A., University of California, Los Angeles
 Whitney Anderson (2005), Coordinator, Residential Life; B.S., University of Minnesota, Morris
 David Aronson (1981), Project Coordinator, Plant Services; B.S., University of Wisconsin, Stevens Point; M.A., University of Wisconsin, River Falls

Administration and Faculty

- Donna Bauck (2001), General Manager, Sodexho Campus Services
- Jill Beauregard (1993), Interim Director, Financial Aid; B.A., University of Minnesota, Morris; M.Ed., University of Minnesota, Duluth
- Brenda Boever (1980), Interim Coordinator, Advising; B.A., University of Minnesota, Morris; M.L.S., University of Minnesota, Twin Cities
- Roger Boleman (1966), Director, Media Services; B.A., M.L.S., University of Minnesota, Twin Cities
- Peter Bremer (2004), Assistant Librarian, Library; B.S., Winona State University; M.S., Dominican University
- Heather Nicole Christian (2006), Residence Hall Director; B.A., Central Washington University, Ellensburg, WA
- James Ciaramitaro (2002), Police Officer; LED, Alexandria Technical College
- Mike Cihak (1995), Assistant Director for Graphics, Marketing, and Communication; B.S., Moorhead State University
- Matthew Conner (2000), Assistant Librarian, Library; A.B., Princeton University; M.A., Ph.D., University of Illinois at Urbana-Champaign
- Brian Curtis (2000), Sports Information Director; A.A.S., Brown Institute
- LeAnn Dean (1991), Director, Library; B.A., Concordia College; M.A., University of Minnesota, Twin Cities; M.A., University of South Dakota
- Gary Donovan (1973), Director, Career Center; B.A., M.S., Mankato State University
- Phang Du (2003), Educational Coordinator, Multi-Ethnic Student Program; B.A., M.A., University of International Relations, Beijing, China
- David Fluegel (1997), Community Program Specialist, Center for Small Towns; B.A., University of Minnesota, Morris
- Colleen Frey (2005), Coordinator, Disability Services; B.S., St. Cloud State University
- Henry Fulda (2002), Assistant Vice Chancellor for Student Life; B.A., Lamar University; M.S., M.B.A., Ed.D., Texas A&M University
- Pamela Gades (1978), User Services Specialist, Computing Services; B.A., University of Minnesota, Morris; M.L.S., University of Minnesota, Twin Cities
- Kathryn Gonier-Klopfeish (2000), Coordinator, Disability Services; B.A., University of Minnesota, Morris; M.A., Mankato State University
- Charles Grussing (1981), Lieutenant, Campus Police
- Jacob Grussing (2005) Admissions Counselor; B.A., University of Minnesota, Morris
- Catherine Halbe (1986), Supervisor, General Custodial Service
- Nancy Helsper (1977), Director, Institutional Research; B.A., University of Minnesota, Morris; M.L.S., University of Minnesota, Twin Cities
- Bryan Herrmann (2001), Assistant Director, Admissions; B.A., University of Minnesota, Morris
- Jillian Hiscock (2005), Admissions Counselor; B.A., Gustavus Adolphus College
- Gail Hockert (1996), Counselor, Student Counseling; B.A., University of Minnesota, Morris; M.S., Moorhead State University
- David Jones (1975), Supervisor, Duplicating
- Bridget Joos (2004), Violence Prevention Coordinator; B.S., University of Wisconsin, River Falls
- Lori Koshork (2000), Counselor, Student Counseling; B.A., Hope College; M.A., Western Michigan University
- Corrine Larson (1999), Director, Health Services; R.N., St. Barnabus School of Nursing
- David Loewi (2005), Director, Computing Services; B.A., Harvard College; M.S., University of Texas, Austin
- Lou Logan (1973), Financial Aid Officer
- Michelle Lubbers (2005), Assistant Librarian; B.A., Marymount College of Kansas; M.A., University of Kansas, Lawrence
- Jennifer Lund (1990), Sergeant; B.S., Mankato State University
- Christine Mahoney (2005), Director, Communications; B.S., Moorhead State University
- Thomas Mahoney (1980), Director, Grants Development; B.A., University of Minnesota, Morris
- Sarah Mattson (1995), Human Resources Director; B.S., Southwest State University
- Madeline Maxeiner (1976), Associate Vice Chancellor for External Relations and Director of Fund Development; B.A., University of Minnesota, Morris; M.A., Saint Mary's University of Minnesota
- Carol McCannon (1976), Program Adviser and Coordinator, Community Service and Volunteerism; B.A., University of Minnesota, Morris
- Thomas McRoberts (1968), Director, Continuing Education, Regional Programs and Summer Session, and Director, Center for International Programs; B.A., University of Minnesota, Morris; M.A., University of Oregon
- Michael Miller (1987), Counselor, Multi-Ethnic Student Program; B.S., Appalachian State University; M.S.W., University of Minnesota, Duluth
- Jaime Moquin (2005), Director, Admissions; B.S., Northland College, Ashland
- Julie Phelps (2004), Assistant Director of Residential Life, B.S., University of Wisconsin, Stevens Point; M.A., Minnesota State University
- Carla Riley (2003), Director, Alumni Relations and Annual Giving; B.A., University of Minnesota, Morris; M.A., University of St. Thomas
- Mickey Rose (1972), Supervisor of General Maintenance; B.A., University of Minnesota, Morris
- Thomas Ross (2003), Coordinator, Residential Life; B.S., University of South Dakota
- David Savela (1990), User Services Specialist, Computing Services; B.A., University of Minnesota, Morris
- Tara Schmidt (2006), Admissions Counselor; B.A., University of Minnesota, Morris

- Lynn Schulz (1974), Senior Analyst Programmer, Computing Services; B.A., University of Minnesota, Morris
- Andrew Sharpe (2003), Admissions Counselor; B.A., University of Minnesota, Morris
- Yuanxiang Shi (2005), Assistant Librarian; B.A., Shanxi Normal University, China; M.A., Hunan Normal University, China; M.S., University of Illinois at Urbana-Champaign
- Clare Strand (1990), Interim Registrar; B.A., University of Minnesota, Morris
- David Swenson (2004), Director of Student Activities; B.A., Missouri Southern State College; M.S., Pittsburg State University
- Robert Thompson (1973), Technical Support, Plant Services
- Benjamin Toll (2006), Admissions Counselor; B.A., University of Minnesota, Morris
- Mark Van Overbeke (1988), System Software Programmer, Computing Services; B.A., University of Minnesota, Morris
- Michael Vandenberg (2003), Coordinator, Admissions and Financial Aid; B.A., University of Minnesota, Morris
- Michael Vangstad (1980), Supervisor, Maintenance and Operations
- Douglas Williams (1997), User Services Specialist, Computing Services; B.A., Mankato State University
- Benjamin Winchester (2002), Coordinator, Center for Small Towns; B.A., University of Minnesota, Morris; M.A., University of Missouri, Columbus
- Jennifer Zych (2000), Assistant Director, Admissions; B.A., University of Minnesota, Morris

Morris Campus Faculty

- * *Recipient of the Horace T. Morse-Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education.*

Division of Education

Judy Kuechle, Chair

Elementary and Secondary Education

Professor

- Craig Kissock (1969), B.S., M.A., Ph.D., University of Minnesota, Twin Cities
- Gwen Rudney (1991), B.A., M.A., Ph.D., University of California, Riverside

Associate Professor

- Judy Kuechle (1988), B.S., St. Cloud State University; M.S., Mankato State University; Ph.D., University of Minnesota, Twin Cities
- Carol Marxen (1992), B.S., St. Cloud State University; M.Ed., University of Minnesota, Twin Cities; Ed.D., University of North Dakota, Grand Forks
- Michelle Page (2000), B.A., Concordia College; M.S., Ph.D., University of Wisconsin, Madison

Assistant Professor

- Hsing-Wen Hu (2005), B.A., National Hsinchu Teachers College, Taiwan; M.Ed., National Taipei Teachers College, Taiwan; Ed.D., University of Massachusetts, Amherst
- Pam Solvie (2003), B.S., St. Cloud State University; M.Ed., University of Minnesota, Morris; Ph.D., Pennsylvania State University

Wellness and Sport Science

Director of Intercollegiate Athletics

- Mark Fohl (1985), B.S., Dickinson State College; M.S., University of North Dakota

Head Men's Golf and Baseball Coach

- Mark Fohl (1985), B.S., Dickinson State College; M.S., University of North Dakota

Head Football Coach

Position to be appointed

Head Men's Basketball Coach

- Paul Grove (2002), B.A., Gustavus Adolphus College; M.S., Augustana College

Head Track Coach and Head Cross Country Coach

- Jeremy Karger-Gatzow (2004), B.A., Hamline University

Interim Head Women's Basketball Coach

- Tim Grove (2006), A.A., Fergus Falls Community College; B.S., Mayville State University; M.A., University of North Dakota, Grand Forks

Head Women's Volleyball Coach and Head Women's Softball Coach

- Heather Pennie (1998), B.A., University of Minnesota, Morris; M.A., Northern State University

Head Men's Soccer Coach

- Christian DeVries (1998), B.S., M.A., Adams State College

Head Women's Soccer Coach

- Dan Magner (2006), B.A., Eastern Nazarene College

Head Women's Golf Coach

- Jana Koehler (2000), B.A., University of Minnesota, Morris

Head Swim Coach/Aquatic Coordinator

- David Molesworth (2004), B.S., M.A., University of South Dakota

Assistant Football and Assistant Baseball Coach

- Todd Hickman (1998), B.E.S., St. Cloud State University; M.Ed., University of Nebraska, Kearney

Assistant Football Coach

- Raven Battle (2005), B.S., Idaho State University

Assistant Football Coach/Equipment Manager

- Matthew Johnson (2004), B.A., University of Minnesota, Morris

Administration and Faculty

Athletic Trainer

Ray Bowman (2001), B.A., Buena Vista College; M.A.,
Minnesota State University, Mankato

Division of the Humanities

*Jennifred Nellis, Chair

Art History

Associate Professor

Julia Dabbs (2000), A.B., University of Michigan, Ann Arbor;
M.A., Ph.D., University of Maryland College Park

Joel Eisinger (1989), B.A., Indiana University; M.A.,
Stanford University; M.F.A., Ph.D., Indiana University

Assistant Professor

James Schryver (2005), B.A., Boston University; M.A.,
Ph.D., Cornell University

Art, Studio

Professor

*Jennifred Nellis (1977), B.F.A., University of Nebraska;
M.A., M.F.A., University of Iowa

Associate Professor

Jessica Larson (1995), B.A., University of Minnesota,
Morris; M.F.A., University of Colorado

Assistant Professor

Therese Buchmiller (2002), B.F.A., School of the Art
Institute of Chicago; M.F.A., California College of Arts
and Crafts, San Francisco

Michael Eble (2003), B.F.A., University of Louisiana;
M.F.A., University of Mississippi

Theresa Otten (2001), B.S., North Dakota State University;
M.F.A., University of South Dakota, Vermillion

English

Associate Professor

Janet Ericksen (1998), B.A., University of Kansas,
Lawrence; M.A., Ph.D., University of Illinois, Urbana-
Champaign

Vicki Graham (1989), B.A., San Francisco State University;
M.L.S., M.A., Ph.D., University of California, Berkeley

Assistant Professor

Bradley Deane (2002), B.A., University of Michigan; M.A.,
Ph.D., Northwestern University

Becca Gercken (2002), B.A., Slippery Rock University;
M.A., Ph.D., University of Miami

C. Brook Miller (2006), B.A., Dartmouth College; M.A.,
Ph.D., Indiana University

Martisha Turk (2005), B.A., Oberlin College; M.A., Ph.D.,
University of Wisconsin, Madison

Instructor

Argie Manolis (2000), B.A., B.S., Kent State University;
M.F.A., Arizona State University

French

Associate Professor

Sarah Buchanan (2000), B.A., St. Olaf College; M.A.,
University of Utah; Ph.D., University of Minnesota,
Twin Cities

Assistant Professor

Tammy Berberi (2002), B.A., Colorado College; M.A.,
University of North Carolina, Chapel Hill; Ph.D.,
Indiana University, Bloomington

German

Professor

Edith Borchardt (1985), A.B., Vassar College; M.A., Ph.D.,
University of California, Berkeley

Music

Professor

*James Carlson (1978), B.A., University of Minnesota,
Morris; M.M., Moorhead State College; D.M.E., Indiana
University

Associate Professor

Kenneth Hodgson (1978), B.A., St. Olaf College; M.A.,
Central Washington State College; D.M.A., University of
Illinois, Urbana-Champaign

Richard Richards (1977), B.M., Concordia College;
M.Mus., D.M.A., University of Colorado

Assistant Professor

Martin Seggelke (2006), B.A., Federal Academy of Music,
Trossingen, Germany; N.M., University of Bremen,
Germany; D.F.A., University of Calgary, Canada; M.M.,
State University of New York; D.M.A., Eastman School
of Business

Philosophy

Professor

*Pieranna Garavaso (1985), B.A., M.A., University of
Padova, Italy; Ph.D., University of Nebraska, Lincoln

Assistant Professor

Mark Collier (2005), B.A., Columbia University; Ph.D.,
University of California, San Diego

Tamler Sommers (2005), B.A., University of Pennsylvania;
Ph.D., Duke University

Spanish

Professor

Vicente Cabrera (1987), B.A., Universidad Catolica del
Ecuador; M.A., Ph.D., University of Massachusetts,
Amherst

Associate Professor

Stacey Parker Aronson (1991), B.A., Ohio Wesleyan
University; M.A., University of Kansas; Ph.D.,
University of Minnesota, Twin Cities

Thomas Turner (1970), A.B., Drury College; Ph.D.,
University of Missouri

James Wojtaszek (1999), B. A., M.A., Kent State University; Ph.D., Rutgers, The State University of New Jersey

Assistant Professor

Jacqueline Alvarez-Ogbesor (2004), B.A., Universidad Mayor Real y Pontificia de San Francisco Xavier de Chuquisaca; M.A., University of Nebraska-Lincoln; Ph.D., Vanderbilt University

Speech Communication

Professor

Mary Elizabeth Bezanson (1987), B.S., B.A., University of Minnesota, Twin Cities; M.A., Ph.D., University of Washington

Neil Leroux (1990), B.S., University of Minnesota, Twin Cities; M.Div., Lincoln Christian Seminary; A.M., Ph.D., University of Illinois, Urbana-Champaign

Associate Professor

Barbara Burke (1996), M.A., University of Michigan; B.S., B.A., M.A., Ph.D., Purdue University

Theatre Arts

Professor

Tap Payne (1979), B.S., Eastern New Mexico University; M.F.A., University of Oregon

Associate Professor

Ray Schultz (2000), B.A., New York University; M.A., Ph.D., Wayne State University

Assistant Professor

Siobhan Bremer (2001), B.S., Winona State University; M.F.A., Mankato State University

Division of Science and Mathematics

Michael Korth, Chair

Biology

Professor

Christopher Cole (1989), B.A., Brown University; M.S., Ph.D., University of Minnesota, Twin Cities

*Van Gooch (1978), B.S., California State University, Hayward; Ph.D., University of California, Berkeley

David Hoppe (1975), B.A., M.S., University of Minnesota, Twin Cities; Ph.D., Colorado State University

Associate Professor

Tracey Anderson (1997), B.A., Gustavus Adolphus College; M.A., University of Kansas; Ph.D., Oregon State University

Margaret Kuchenreuther (1991), B.A., University of Northern Iowa; M.S., Ph.D., University of Wisconsin, Madison

Paul Myers (2000), B.S., University of Washington, Seattle; Ph.D., University of Oregon

Peter Wyckoff (2001), B.A., Drew University; Ph.D., Duke University

Assistant Professor

Timna Wyckoff (2001), B.A., University of Minnesota, Morris; Ph.D., Duke University

Chemistry

Professor

*James Togeas (1961), B.A., St. Olaf College; M.A., University of Minnesota, Twin Cities

Associate Professor

*Nancy Carpenter (1989), B.S., Elmhurst College; Ph.D., Northwestern University

Timothy Soderberg (2000), B.A., Amherst College; Ph.D., University of Utah

Assistant Professor

Joseph Alia (2002), B.A., New College of Florida; Ph.D., Yale University

Jennifer Goodnough (2002), B.S., Saint Francis College, Pennsylvania; Ph.D., University of Wisconsin, Madison

Ted Pappenfus (2003), B.A., Saint John's University; Ph.D., University of Minnesota, Twin Cities

Computer Science

Professor

Angel Lopez (1970), B.S., North Dakota State University; M.S., Ph.D., Michigan Technological University

Dian Lopez (1991), B.S., Moorhead State University; M.S., Michigan Technological University; M.C.S., Ph.D., Texas A&M University

Associate Professor

Nicholas McPhee (1991), B.A., Reed College; M.S., Ph.D., University of Texas, Austin

Assistant Professor

Jinzhao Gao (2006), B.S., Huazhong University; M.S., National/CAD Research Center, Huazhong University; Ph.D., Ohio State University

Kristin Lamberty (2005), B.A., University of Minnesota, Morris; M.S., Georgia Institute of Technology

Elena Machkasova (2003), M.S., Moscow Oil and Gas Institute; M.S., University of Southern Maine; Ph.D., Boston University

Geology

Professor

*James Cotter (1984), B.A., Franklin and Marshall College; M.S., Ph.D., Lehigh University

*James Van Alstine (1974), B.A., Winona State University; M.S., Ph.D., University of North Dakota

Associate Professor

Keith Brugger (1993), B.S., M.S., Lehigh University; Ph.D., University of Minnesota, Twin Cities

Jamey Jones (2005), B.S., University of the South, Sewanee; M.S., University of Wyoming, Laramie; Ph.D., University of Texas, Austin

Mathematics

Professor

Michael O'Reilly (1986), B.Sc., Queen's University, Northern Ireland; Ph.D., Manchester University, England

Associate Professor

Barry McQuarrie (2000), B.S., University of Winnipeg; M.M., University of Waterloo; Ph.D., University of Manitoba

*Peh Ng (1995), B.S., Adrian College; M.S., Ph.D., Purdue University

David Roberts (1999), B.A., Princeton University; Ph.D., Harvard University

Assistant Professor

Byungik Kahng (2003), B.S., Seoul National University; M.S., Stanford University; Ph.D., University of Illinois at Urbana-Champaign

Xiaosheng Li (2003), B.S., Shanxi Normal University; M.S., University of Illinois at Urbana-Champaign

Mark Logan (2002), B.A., Carleton College; Ph.D., University of Wisconsin, Madison

Physics

Associate Professor

Michael Korth (1984), B.A., University of Minnesota, Morris; M.S., Ph.D., University of Maryland

Gordon McIntosh (1992), B.S., Westminster College, PA; M.S., West Virginia University; Ph.D., University of Massachusetts, Amherst

Assistant Professor

Sylke Boyd (2004), M.A., Ph.D., University of Technology in Chemnitz, Germany

Matthew Len Keeler (2003), B.S., Marlboro College; Ph.D., Wesleyan University

Statistics

Professor

*Engin Sungur (1990), B.CP., M.S., Middle East Technical University, Turkey; M.S., Ph.D., Carnegie Mellon University

Associate Professor

*Jon Anderson (1994), B.S., M.S., Ph.D., University of Minnesota, Twin Cities

Jong-Min Kim (2002), B.S., Chongju University, South Korea; M.S., Chung-Ang University, South Korea; Ph.D., Oklahoma State University

Division of the Social Sciences

Jooinn Lee, Chair

Anthropology

Associate Professor

Donna Chollett (1996), B.S., M.A., Iowa State University; Ph.D., Michigan State University

Dennis Templeman (1971), A.B., Ph.D., University of California, Berkeley

Assistant Professor

Julie Pelletier (2002), B.S., University of Maine; M.A., Michigan State University

Economics

Professor

Cyrus Bina (2000), B.S., Institute of Advanced Accounting, Tehran; M.A., Ball State University; Ph.D., American University

Associate Professor

Stephen Burks (1999), B.A., Reed College; M.A., Indiana University; Ph.D., University of Massachusetts

*Bart Finzel (1989), B.A., Valparaiso University; M.A., Ph.D., Cornell University

Arne Kildegaard (2001), B.A., Gustavus Adolphus College; M.A., University of Chicago; Ph.D., University of Texas, Austin

*Pareena Lawrence (1994), B.A., M.A., Delhi University, India; M.S., Ph.D., Purdue University

Assistant Professor

Minh Vo (2002), B.E.E., HCMC University of Technology; M.B.A., Asian Institute of Technology; Ph.D., McGill University, Montréal, Canada

Management

Professor

Cyrus Bina (2000), B.S., Institute of Advanced Accounting, Tehran; M.A., Ball State University; Ph.D., American University

Associate Professor

*Bart Finzel (1989), B.A., Valparaiso University; M.A., Ph.D., Cornell University

Assistant Professor

Minh Vo (2002), B.E.E., HCMC University of Technology; M.B.A., Asian Institute of Technology; Ph.D., McGill University, Montréal, Canada

Instructor

Joan Reicosky (1983), B.S., Ohio State University; M.Ed., University of South Carolina, Columbia

History

Professor

*Wilbert Ahern (1967), B.A., Oberlin College; M.A., Ph.D., Northwestern University

*Roland Guyotte (1969), A.B., Brown University; M.A., Ph.D., Northwestern University

Harold Hinds, Jr. (1970), B.A., University of Oregon; M.A., Ph.D., Vanderbilt University

Assistant Professor

- Jennifer Kolpacoff Deane (2005), B.A., University of Washington, Seattle; Ph.D., Northwestern University
- Stephen Gross (1998), B.A., Ph.D., University of Minnesota, Twin Cities
- Marynel Ryan (2005), B.A., University of Illinois, Chicago; Ph.D., University of Minnesota, Twin Cities
- Patrick Shorb (2004), B.A., Yale University; M.A., Ph.D., Princeton University

Political Science**Professor**

- *Jooinn Lee (1961), B.A., Yonsei University, Korea; M.A., University of North Dakota; Ph.D., University of Illinois, Urbana-Champaign

Associate Professor

- Seung-Ho Joo (1995), B.A., Yonsei University, Korea; M.A., Eastern Kentucky University; Ph.D., Pennsylvania State University
- Paula O'Loughlin (1996), B.A., Smith College; Ph.D., University of Minnesota, Twin Cities
- Gregory Thorson (1995), B.A., Augsburg College; M.A., Ph.D., University of California, Riverside

Assistant Professor

- Oya Durson (2006), B.A., Bogazici University, Istanbul, Turkey; M.A., Ph.D., University of Texas, Austin
- William Hunt (1994), B.A., Hanover College; Ph.D., Vanderbilt University

Psychology**Associate Professor**

- Katherine Benson (1978), B.A., University of Minnesota, Twin Cities; M.S., Ph.D., University of Massachusetts, Amherst
- Thomas Johnson (1986), B.A., St. Olaf College; Ph.D., University of Minnesota, Twin Cities
- *Leslie Meek (1995), B.A., University of Minnesota, Morris; Ph.D., University of Michigan
- *Jeffrey Ratliff-Crain (1989), B.S., Ohio State University; Ph.D., Uniformed Services University of the Health Sciences
- Dennis Stewart (2002), B.S., University of Illinois at Urbana-Champaign; M.A., Ph.D., Miami University

Assistant Professor

- Jacqueline Greenwood (2006), A.A., Inver Hills Community College; B.S., University of Wisconsin, River Falls; M.A., Ph.D., Argosy University, Twin Cities

Sociology**Associate Professor**

- Donna Chollett (1996), B.S., M.A., Iowa State University; Ph.D., Michigan State University
- Solomon Gashaw (1986), B.A., Haile Selassie I University, Ethiopia; M.L.I., S.J.D., Ph.D., University of Wisconsin, Madison
- Farah Gilanshah (1988), B.A., National University of Iran; M.A., Ph.D., University of Minnesota, Twin Cities

Assistant Professor

- Jennifer Rothchild (2003), B.A., Miami University; M.A., Georgia State University; Ph.D., American University

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Campus Directory

Questions? Problems? Need information? The following UMM directory should assist persons in directing their requests to the proper offices. Write the appropriate office at the University of Minnesota, Morris, MN 56267, or call the number listed. The area code is 320.

Academic Advising • 589-6010

Advising assignments, change of major, APAS reports, Scholastic Committee.

Academic Affairs, Vice Chancellor and Dean • 589-6015

Academic affairs, curriculum, faculty interests.

Academic Assistance Center • 589-6178

Academic skills, tutors.

Admissions and Financial Aid • 589-6035

Admissions, fees, scholarships, student employment.

Alumni Relations and Annual Giving • 589-6066

Alumni records and services, alumni association.

Business Office • 589-6125

Payment of fees, college purchases.

Campus Police • 589-6000

Police, emergencies.

Career Center • 589-6065

Career advising, placement services, internships.

Chancellor • 589-6020

General policies and interests of the college.

Computing Services • 589-6390

Computing services.

Continuing Education, Regional Programs, and Summer Session • 589-6450

Evening classes, May session, summer session, online courses, conferences, advising.

Counseling, Student • 589-6060

Personal counseling services.

Disability Services • 589-6178 (V/TDD)

Accommodations, access, advocacy.

Education, Division of • 589-6400

Division of Education faculty and courses, including wellness and sport science.

Faculty Center for Learning and Teaching • 589-6273

Faculty resources for learning and teaching.

Finance, Senior Administrative Director • 589-6024

College finances, budgeting, human resources.

Fund Development • 589-6066

Financial gifts to the college.

Grants Development • 589-6465

Grant opportunities, management.

Health Service • 589-6070

Medical care, health-related excuses.

Human Resources • 589-6024

Personnel services, employee benefits and payroll.

Humanities, Division of the • 589-6250

Division of the Humanities faculty and courses.

Honors Program • 589-6464

UMM Honors Program.

International Programs, Center for • 589-6464

Study abroad.

Institutional Research • 589-6012

Statistics about the University.

Library • 589-6175

Circulation, reference, administration.

Multi-Ethnic Student Program • 589-6095

Services for students of color.

Plant Services • 589-6100

Physical plant, grounds.

Registrar's Office • 589-6030

Transcripts of grades and records, class schedules, registration.

Residential Life • 589-6475

Student housing, residence hall interpersonal relations and programming.

Science and Mathematics, Division of • 589-6300

Division of Science and Mathematics faculty and courses.

Social Sciences, Division of the • 589-6200

Division of the Social Sciences faculty and courses.

Student Activities • 589-6080

College events, student organizations, service learning (Campus Compact).

Student Affairs, Vice Chancellor • 589-6013

Student affairs.

Morris Campus Student Association • 589-6086

Student government.

University Relations • 589-6050

Information services, media relations, special events, calendar.

The following UMM Web directory should assist persons in locating Internet address information for Morris. The campus home page address is www.morris.umn.edu/.

Academic Advising

www.morris.umn.edu/academic/advising

Academic Programs

www.morris.umn.edu/academic

Admissions

www.morris.umn.edu/prospective

Alumni Relations and Annual Giving

www.morris.umn.edu/alumni

Athletics

www.morris.umn.edu/athletics

Campus Departments and Disciplines

www.morris.umn.edu/services

Catalogs Online for the Morris Campus

www.catalogs.umn.edu/morris

Committees and Organizations

www.morris.umn.edu/committees

Computing Services

www.morris.umn.edu/cs

Continuing Education

www.morris.umn.edu/cecp

Directories

www.morris.umn.edu/directories

Diversity and Multiculturalism on Campus

www.morris.umn.edu/CampusLife/Multicultural.html

Education, Division of

www.morris.umn.edu/academic/education.html

Events Calendar

www.morris.umn.edu/events

Faculty Center for Learning and Teaching

www.morris.umn.edu/academic/fclt

Financial Aid

www.morris.umn.edu/admissions/financialaid

Grants Development

www.morris.umn.edu/grants

Honors Program

www.morris.umn.edu/academic/honors

Humanities, Division of the

www.morris.umn.edu/academic/humanities.html

Institutional Research

www.morris.umn.edu/academic/instres.html

International Programs, Center for

www.morris.umn.edu/cecp/abroad

Language Teaching Center

www.morris.umn.edu/~ltc

Library

www.morris.umn.edu/library

May Session

www.morris.umn.edu/cecp/may_session

Registrar's Office

www.morris.umn.edu/services/registrar

Residential Life

www.morris.umn.edu/services/reslife

Science and Mathematics, Division of

www.morris.umn.edu/academic/science_math.html

Social Sciences, Division of the

www.morris.umn.edu/academic/socialsci.html

Summer Session

www.morris.umn.edu/cecp/summer

UMM Writing Room

www.morris.umn.edu/academic/writing_room

University Register

www.morris.umn.edu/register

University Relations

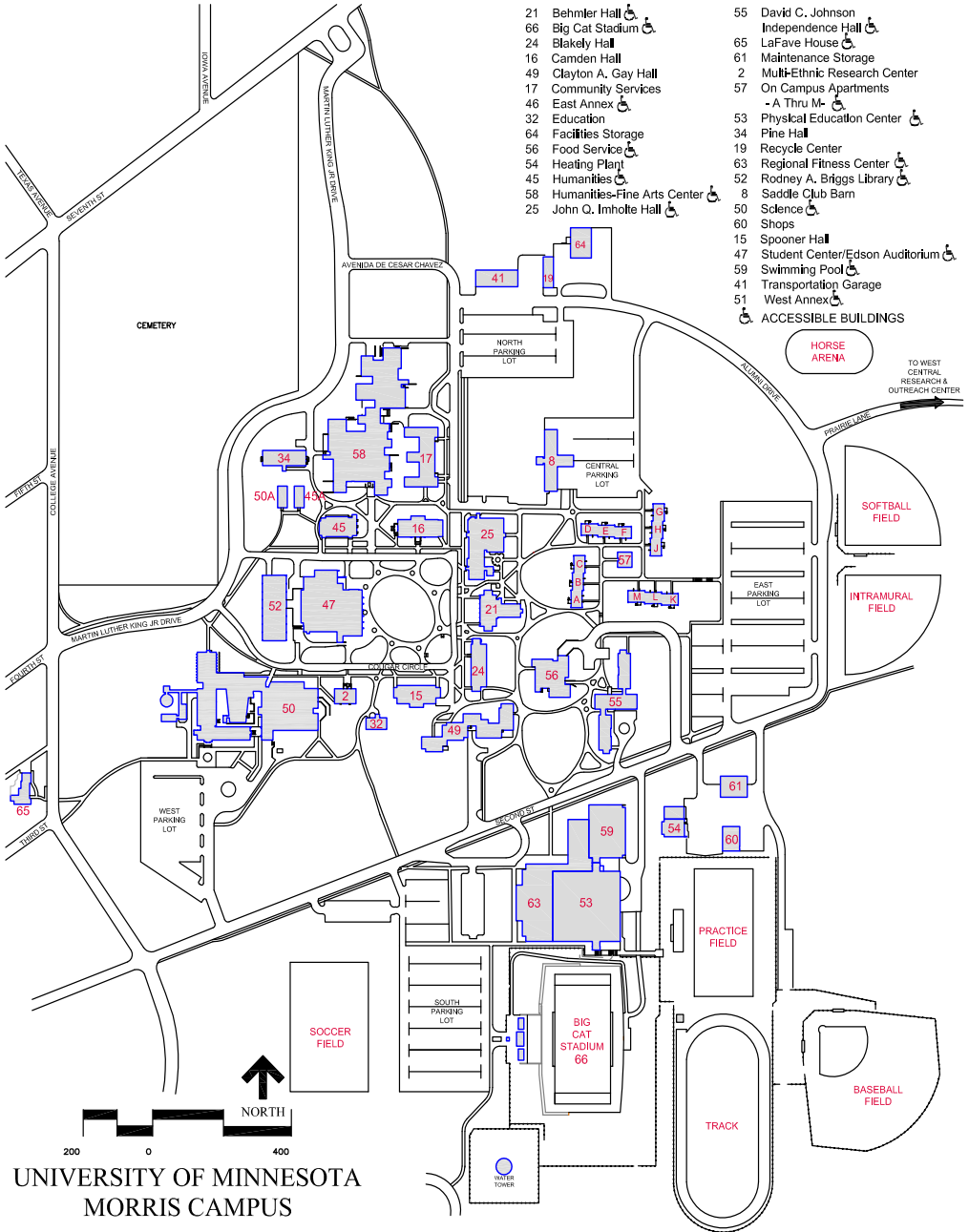
www.morris.umn.edu/alumni/universityRelations

Visitor Information

www.morris.umn.edu/visitor

The UMM home page address is
www.morris.umn.edu/

Morris Campus Map



UNIVERSITY OF MINNESOTA
MORRIS CAMPUS

